

C-6107

Sub. Code

82215

B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

First Semester

Manufacturing Technology

PRODUCTION TECHNOLOGY

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is meant by machining economics?
2. Write the uses of cutting fluid.
3. Write short note on temperature in cutting.
4. Why boring machines are used?
5. Write any two uses of drilling machines.
6. Write about multi spindle automats.
7. Write a note on turret lathe.
8. Write a note on cutting screw thread.
9. What are bonded abrasives?
10. Define grinding fluid.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Write the mechanics of chip formation.

Or

- (b) Discuss about vibration and chatters in machining.

12. (a) Write the design consideration for drilling.

Or

- (b) Write about Swiss type and automatic screw machine.

13. (a) Write about broaching and broaching machines.

Or

- (b) Discuss briefly about milling operation.

14. (a) Write about economics of grinding.

Or

- (b) Describe wheel gear grinding operations.

15. (a) Write about abrasive flow machining.

Or

- (b) Write the salient features of electric discharge machining.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail the mechanics of orthogonal and oblique cutting.

Or

- (b) Explain the types of chips produced in cutting.

17. (a) Explain machine tools and process for producing round shape.

Or

(b) Explain in detail reaming and reamers, tapping and taps.

18. (a) Explain the design consideration for grinding.

Or

(b) Explain in detail about laser beam machining.

C-6109

Sub. Code

82235

B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Manufacturing Technology

EFFECTIVE EMPLOYABILITY SKILLS

(2019 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Resume.
2. Write the merits of Interview.
3. Name any two Social Media Platform in which you apply for job.
4. What is meant by extracurricular activities?
5. Write the types of Leadership.
6. Why listening skill is important?
7. What is Extrinsic motivation?
8. Name any three great leaders you admire.
9. What are the merits of collaborative work?
10. Write any three qualities of Leadership.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Why interpersonal communication is important?

Or

- (b) Write short note on one to one communication.

12. (a) Write the importance of ice - breaking session.

Or

- (b) Describe the process in management.

13. (a) Write the steps in review of the team work.

Or

- (b) Write the merits of organizational behaviour.

14. (a) Write the importance of managerial skills.

Or

- (b) How will you improve your personality?

15. (a) Highlight the dress code in an interview.

Or

- (b) How does Goal setting and Positive thinking helps in an organization?

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Prepare your own curriculum vitae to apply for a job.

Or

- (b) How will you face the interview effectively?

17. (a) Elaborate on the importance of group discussion in an organization.

Or

(b) Elaborate on the merits and demerits of teamwork in an organization.

18. (a) Elaborate on the Leadership skills and practices.

Or

(b) Explain the employability skills needed for the present scenario.

C-7392

Sub. Code

82248

B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

Fourth Semester

Manufacturing Technology

DESIGN OF MACHINE ELEMENTS

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Define- Mechanical properties.
2. List out the few factors of safety.
3. Point out the usage of shafts.
4. What is critical speed?
5. State the process of riveted joints.
6. What is Knuckle joints?
7. List out the advantage of rubber springs.
8. Point out the benefits of rims.
9. Define Rolling contact bearings.
10. What is Raimondi?

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Briefly explain about shock loading.

Or

- (b) Give a short note on fits and tolerances.

12. (a) Describe about functions of keys.

Or

- (b) Differentiate between shafts and couplings.

13. (a) Briefly explain about bolted joints.

Or

- (b) Give a short note on Temporary joints.

14. (a) Describe about functions of crank shafts.

Or

- (b) Point out the role of flywheels.

15. (a) Briefly explain about sommerfeld number.

Or

- (b) Write a short note on role of bearings in machines.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail about design for variable loading.

Or

- (b) Describe about designing process of solid and hollow shafts.

17. (a) Enumerate the importance of cotton joints.

Or

(b) Narrate about components of engine.

18. (a) Explain in detail about crane hook and 'C' frame.

Or

(b) Describe about functional process of engine.

C-6111

Sub. Code

82252

B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

Fifth Semester

Manufacturing Technology

BASICS OF LEGAL AND HR POLICIES

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is fulltime employment?
2. What are the skills required in an organisation?
3. Define Communication.
4. What is Case study?
5. Why team work is important?
6. What is intrapersonal communication?
7. Write the merits of insurance.
8. Write the concept of overtime.
9. What is Legal literacy?
10. List any two public sectors.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Highlight the merits of teamwork.

Or

- (b) State the importance of training.

12. (a) Discuss the tax impact of the salary components.

Or

- (b) Write short note on bond and other commitments.

13. (a) Write about Indian legal system.

Or

- (b) Write about Apprentice Act, 1961.

14. (a) Write about the Sexual harassment of women Act, 2013.

Or

- (b) State the concept of sector and public sector employment.

15. (a) State the salient features of Minimum wages Act, 1948.

Or

- (b) Write about the basics of Criminal law.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Explain in detail about the types of employment.

Or

- (b) Explain in detail about the components of salary.

17. (a) Explain the importance of Human Rights in detail.

Or

(b) Explain in detail the Right to Information Act, 2015

18. (a) Explain in detail about Employees Provident Fund and Misc. provisions Act, 1952.

Or

(b) Explain in detail the Social security investment avenues available to private sector employees and self-employed.

C-6112

Sub. Code

82262

B.Voc. DEGREE EXAMINATION, APRIL 2022.

Sixth Semester

Manufacturing Technology

INDUSTRIAL SAFETY

(2019 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Narrate the two factors which reduce accidents in a machine shop.
2. State the preventive measures to run engine lathes safely.
3. Define the term Zero Mechanical State (ZMS)
4. Point out hazards associated with turret lathes and screw machines.
5. How leak detection can be carried out in pipeline.
6. What is flashback arrestor?
7. List out the types of injuries that occur in kick presses.
8. Discuss about cold working.
9. Where dynamic balancing is required?
10. Analyze the need for hydro testing

Part B

(5 × 5 = 25)

Answer **all** questions

11. (a) Explain the procedure for safely removing chips, shavings, and cuttings.

Or

- (b) Write the inspection procedure for boring machine.

12. (a) Differentiate mechanical and non-mechanical Hazards.

Or

- (b) Analyze in detail about the hazards associated with boring and drilling.

13. (a) Explain the common hazards in welding two metals.

Or

- (b) Generalize the safety measures in storing of gas cylinders.

14. (a) Explain point of operation safeguarding in cold working.

Or

- (b) Explain in detail about various operations in power presses.

15. (a) Explain the precautions to be taken during nitriding.

Or

- (b) Describe the safety measures for electroplating.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail about the general safety rules in metal working industry.

Or

- (b) Explain safety precautions while manufacturing gears in milling machine.

17. (a) Explain in detail various personal protective equipment used in welding process.

Or

- (b) Recommend and explain suitable practices for Industrial safety.

18. (a) Explain the safety training process in hot working.

Or

- (b) Recommend the suitable procedure for safety in inspection and testing.

C-7013

Sub. Code

**16/17/23/25/
26/27/29**

**COMMON FOR ALL U.G DEGREE COURSES
EXAMINATION, NOVEMBER 2022**

First/Second Semester

ENVIRONMENTAL STUDIES

(2019/2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Nonrenewable resources
2. Ecosystem
3. Food Chain of forest ecosystem.
4. Pandemic Emergencies.
5. Red Data Book
6. Hot spots
7. Climate Change
8. Deforestation
9. Biodiversity
10. Acid Rain

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Differentiate renewable and nonrenewable energy resources.

Or

- (b) Write notes on structure and functions of grassland ecosystem.

12. (a) Write notes on Food Webs of Forest Ecosystem with suitable examples.

Or

- (b) Write notes on Genetic, Species and Ecosystem Diversity.

13. (a) Write short notes on Food resources and its problems associated with them.

Or

- (b) Write notes on land resources and problem associated with them.

14. (a) Write notes on thermal pollution.

Or

- (b) Write notes on energy pyramids with suitable examples.

15. (a) Explore the threats to biodiversity.

Or

- (b) Write note on man-made disaster with special reference to strike.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Write an essay on multidisciplinary nature of environmental studies and about the need for public awareness on environment.

Or

- (b) Write an essay on Water Resources and problem associated with over-utilization of various water resources.
17. (a) Write an essay on Biogeographical classification of India.

Or

- (b) Write an essay on values of biodiversity.
18. (a) Write an essay on causes, effects and control measures of water pollution.

Or

- (b) Enumerate various strategies in managing disasters caused due to natural calamities.
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C-5664

Sub. Code

**16/17/23/25/
26/27/29**

**Common for All U.G. B.Sc./B.B.A. DEGREE
EXAMINATION, APRIL 2022**

First/Second Semester

ENVIRONMENTAL STUDIES

(2019/2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. ZSI.
2. WII.
3. What is renewable energy?
4. Food web.
5. Pyramid of numbers in aquatic ecosystem.
6. Red data book.
7. List out any five Endemic species of India.
8. List out marine pollutants.
9. *Ex Situ* Conservation.
10. Enlist Option Values of Biodiversity.

Part B

(5 × 5 = 25)

Answer **all** the questions.

11. (a) Write notes on definition, scope and importance of environmental studies.

Or

- (b) Write notes on soil erosion and desertification.

12. (a) Write notes on energy flow in the ecosystem.

Or

- (b) Write notes on threads to biodiversity.

13. (a) Write notes on Biodiversity at Global, National and Local levels.

Or

- (b) Write notes on various strategies of conservation of Biodiversity.

14. (a) Write notes on ecological pyramids.

Or

- (b) Write notes on air pollution.

15. (a) Write notes on noise pollution.

Or

- (b) Write notes on effects and control measures of nuclear hazards.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on the multidisciplinary nature of Environmental Studies.

Or

- (b) Write an essay on the following resources with special emphasis to how they are overexploited/utilized which in turn damage the environment, (i) Forest Resources and (ii) Food Resources.

17. (a) Write an essay on “India is a mega-diversity nation”.

Or

- (b) Write an essay on Biodiversity and their values.

18. (a) Write an essay on causes, effects and control measures of (i) Marine Pollution and (ii) Water Pollution.

Or

- (b) Write an essay on concept, structure and function of ecosystem.