

8. Write short notes (any five):
 (a) Condensation number, (b) Different types of sensing elements, (c) Regression analysis, (d) Laser beam welding, (e) Technology management, (f) Tool geometry, (g) Universal chuk, (h) Shear angle.
9. (a) Discuss the concept and nature of personnel management. How does personnel management contribute to the optimum utilization of human resources of an organisation? 7
 (b) What is span of control? Suggest the form of organisation for a construction project with explanation. 7
 (c) Explain research cost and research risk. Is research a cost or an investment in an organisation? Give reasons in favour of your opinion. 6
10. (a) What is centrifugal casting? Describe the main features and advantages of centrifugal casting. 5
 (b) Mention the common drilling operations in manufacturing process. Describe and designate the principle units of vertical drill press. 5
 (c) How are shaping and planning alike? Write the advantages and disadvantages of shaping and planning as compared to other operations. 5
 (d) Briefly describe the working principle of resistance welding. 5
11. (a) What are the causes and effects of vibration? 4
 (b) Explain why only a part of unbalanced force due to reciprocating masses is balanced by removing mass. 10
 (c) Write short notes on primary and secondary balancing. 6
12. (a) Explain briefly accuracy and precision. What are the requirements of accurate measuring instruments? 6
 (b) Describe non-destructive testing (NDT). Compare NDT with conventional techniques. 7
 (c) Why is surface finish very important in engineering applications? Describe two methods of testing flatness of surface mentioning the advantages and limitations. 7
13. (a) Draw the P-V and T-S diagrams of an air standard diesel cycle and explain. Also discuss the deviations of actual cycle compared with air standard cycle. 8
 (b) A diesel engine has a compression ratio of 20 and cut-off takes place at 5% of the stroke. Find the air-standard efficiency. 6
 (c) What is 'compression ratio' in IC engine? Calculate the clearance volume in percent of displacement for air standard Otto cycle having an efficiency of 50%. 6
14. (a) With necessary diagrams deduce the working principle of regenerative gas turbine and explain the effectiveness of regenerator for an ideal regenerative Bryton cycle. 6
 (b) What is staging in steam turbine and why is it done? Explain different types of staging with necessary diagrams. 4
 (c) Briefly explain an ideal reheat Rankine cycle with block diagram and corresponding T-S plane. 4
 (d) A synchronous generator is to supply power at 50Hz. If a turbine rotating at a speed of 300rpm is to rotate generator at 750rpm through a gearbox, determine the gear ratio and number of poles of the generator. 6

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Tao Wei



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