Registration No : | | | | | | | | | | |

Total Number of Pages : 02 **B.Tech**
FEME6302

5th Semester Back Examination 2019-20
PROJECT MANAGEMENT
BRANCH : AERO, MANUFAC, MANUTECH, MECH, PE
Time : 3 Hours
Max Marks : 70
Q.CODE : HB274
Answer Question No.1 which is compulsory and any FIVE from the rest.
The figures in the right hand margin indicate marks.

Q1 **Answer the following questions :** **(2 x 10)**

a) Distinguish between Project management and production management.
b) Write various phases of Project Life Cycle.
c) What is Activity on Arrows (AOA) diagram?
d) What are the phases of Project Life Cycle?
e) What are different types of project feasibility?
f) What is the main objective of break-even analysis?
g) What is 'Work Breakdown Structure (WBS)'?
h) What is project expediting or project crashing?
i) Distinguish between direct cost and indirect cost of project.
j) What is Gantt Chart?

Q2 **a)** Briefly discuss the importance of Pre-feasibility and feasibility studies in ensuring success in operation phase of the project. **(5)**
b) Explain Matrix organization and its suitability for projects. **(5)**

Q3 **a)** Explain NPV method for project evaluation **(5)**
b) Identify the critical success factors in project management. **(5)**

Q4 **a)** What are the different kinds of Floats? What is the significance of floats in any project? **(5)**
b) What is the aim of 'Resource Levelling'? Briefly describe any one method of Resource Levelling. **(5)**

Q5 **a)** Explain the Earn Value concept for measuring the progress of work made in the project. **(5)**
b) Discuss the importance of project audit. Describe Project Audit Life Cycle. **(5)**

Q6 The estimated project cost to set up a factory is given below. **(10)**
Cost of land Rs. 140,00,000
Cost of building Rs. 80,00,000
Cost of furniture, machines, etc. Rs. 220,00,000
The working capital requirement is estimated to be Rs 80,00,000 only.
The monthly expenditure to run the factory including salary to employees is Rs. 10,00,000. The material cost and processing cost for producing one unit of product is Rs. 1,800 per unit Rs. 800 respectively.
The factory is expected to produce 1000 units of a product per month to be sold at price of Rs.5600 per unit.
Assuming cost of capital (interest) as 12% and the rate of depreciation as 10% determine whether the project is economically feasible or not.
Also determine the Break Even Point.

Q7 A maintenance project related to capital shutdown of turbine in a thermal power plant consists of the following jobs. **(10)**

Activity:`	1-2	2-3	2-4	3-4	3-5	4-6	5-8
Duration : (Weeks)	2	8	4	4	6	4	8

Activity:`	5-8	6-7	6-10	7-9	8-9	9-10
Duration : (Weeks)	8	`9	5	5	2	8

a. Draw the network diagram of this project
b. Calculate the project completion time
c. Identify the critical path

Calculate the TOTAL and FREE floats for all activities.

Q8 **Write short Notes on any TWO :** **(5 x 2)**

a) Project Life Cycle
b) SWOT Analysis
c) Risk Analysis of Project