

GUJARAT TECHNOLOGICAL UNIVERSITY

MBA – SEMESTER 04 – EXAMINATION – SUMMER 2017

Subject Code:2840006

Date: 01/06/2017

Subject Name: Project Management

Time: 10.30 AM TO 01.30 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1. (a) Select the most appropriate answer for the following MCQs. 06

1. Which of the following techniques, is used for reducing the duration of the project?
A. PERT
B. CPM
C. Crashing
D. None of the above
2. The main constraint for any project is:
A. Time
B. Quality
C. Cost
D. All of these
3. A post completion audit programme should be designed _____
A. When the project is nearing completion
B. After the completion of the project
C. At the time, the proposal for capital investment (project report) is made
D. Any time during the project
4. When the lead bank involves more banks in financing arrangement, it is known as _____
A. Syndicated loan
B. Take-out finance
C. Roll-over loan
D. Guarantee
5. Dual reporting relationship is a characteristic of _____
A. Functional Structure
B. Project Structure
C. Matrix Structure
D. Divisional Structure
6. Project communication includes
A. Meetings
B. Reports
C. Personal Communication
D. All of these

Q.1. (b) Briefly explain the following terms: 04

1. Special purpose vehicle
2. Project Management Information System
3. Infrastructure projects
4. Virtual project team

Q.1. (c) Explain briefly time overrun and cost overrun. 04

Q.2. (a) Define project and give examples of two real life projects. Also discuss in detail the role of the project manager. 07

Q.2. (b) Mr. Ankur wants to prepare a plan for setting up a new factory. Please guide him as to the basic attributes of a good plan. 07

OR

Q.2. (b) “Every project goes through a life cycle”. Do you agree with the statement? Explain. 07

Q.3. (a) Define project organization structure. Discuss matrix structure in detail. 07

Q.3. (b) “Communication is very important for the success of any project.” Explain the statement. 07

OR

Q.3. (a) “Before executing the project, a contract must be signed between a contractor and a customer.” Do you agree with the statement? What provisions must be compiled in a project contract? 07

Q.3. (b) Mr. Bimal wants to conduct a project audit. You are requested to suggest him the steps and guidelines for successfully conducting project audit. 07

- Q.4. (a)** Describe the five stage team development model with the discussion on the role of the project manager at each stage. **07**
- Q.4. (b)** Mr. Abhishek is exploring various project construction alternatives for his project. Discuss various alternatives in detail. **07**

OR

- Q.4. (a)** “A formal process to handle the project risk minimizes the costs and delays.” Do you agree with the statement? Explain with respect to risk management process. **07**
- Q.4. (b)** Discuss the role of various participants in the Public Private Partnership arrangement for infrastructure projects. **07**
- Q.5.** Mr. Krunal Pathak has completed his engineering from one of the premier institutes of management in India. He did his specialization in the field of production engineering. After pursuing this degree, he worked in a leading corporate, for a period of two years. During that time period, he realized that he should start some business of his own instead of working for others and he decided to start his production unit. He has thought of setting up banana fiber extraction unit in Gujarat. During his study, he came across this project and saw a great opportunity in this field. He needs Rs. 20 lakhs (fixed and working capital) to start this unit. He is able to manage Rs. 5 lakhs from his internal sources. He is exploring various other options for raising the balance amount. He is approaching the investors. But everyone is demanding a project proposal. Since he is an engineer, he has technical knowhow but lacks expertise in writing a business plan. **14**

Based upon the above case facts, please answer the following questions and make suitable assumptions wherever required.

1. Please guide Mr. Krunal Pathak on the content of writing a project report for this proposed venture.
2. Mr. Krunal is evaluating various equity and debt options for raising the fund required for his project. Please advise him which option is best suited in this situation and why? Also guide him specifically for various products and services of Small Industries Development Bank of India (SIDBI).

OR

- Q.5.** Mr. Parag Soni and his team wants to develop a network diagram with the help of the following information. **14**

Activity	Nodes	Time (Days)
A	1-3	3
B	1-2	4
C	2-3	3
D	2-5	5
E	2-4	6
F	3-5	4
G	4-6	5
H	3-6	3
I	5-6	5

Answer the following questions.

1. Develop the network diagram and find the critical path. Also find the time to complete the project.
2. Calculate Earliest Start (ES), Earliest Finish (EF), Latest Start (LS), Latest Finish (LF) and the total float for all the activities.
