

D-11 M-								
MOII NO.								
	 <u> </u>	<u> </u>	 	1	 1	 	 	

### PRESIDENCY UNIVERSITY BENGALURU SCHOOL OF MANAGEMENT

### **WID TERM EXAMINATIONS**

Sem & AY: Odd Sem. 2019-20

Course Code: OPS 202

Course Name: PROJECT MANAGEMENT

Program & Sem: MBA & III

Date: 17.10.2019

Time: 01:30PM to 03:00PM

Max Marks: 40

Weightage: 20%

### Instructions:

i. Answer all the questions in each part.

### Part A [Memory Recall Questions]

### Answer all the Questions. Each Question carries two marks.

(30x2M=6M)

1. State any four roles of Project Manager?

(C.O.NO.1)[Knowledge]

2. List the four stages of Project Life Cycle.

(C.O.NO.1)[Knowledge]

3. Describe any two determinants of project success.

(C.O.NO.1)[Knowledge]

### Part B [Thought Provoking Questions]

### Answer all the Questions. Each Question carries four marks.

(5Qx4M=20M)

4. Explain Project Scope Management and list the six sections as per PMBOK

(C.O.NO.2) [Comprehension]

5. Distinguish between AOA and AON project network diagrams.

(C.O.NO.2) [Comprehension]

6. Discuss the ITTO of Monitor and Control Project Work. (C.O.NO.2) [Comprehension]

7. Explain WBS with suitable examples.

(C.O.NO.2) [Comprehension]

8. Discuss the ITTO of Project Charter.

(C.O.NO.2) [Comprehension]

### Part C [Problem Solving Questions]

Answer both the Question. Each Question carries seven marks.

(2Qx7N=14Ni)

Case Study: PQR Enterprise offers various services on Project Management. It helps in planning projects and organizing various resources necessary to manage the projects. PQR Enterprise has been provided with a task of analyzing the project duration of a new systems installation project for a design firm. The project has 7 activities. The activities along with description of p-activities and duration of each activity is shown in below.

SNo.	Activity	p-activity	Duration (days)
1	Α	A65 sab	10
2	В	A	7
3	С	Α	8
4	D	В	20
5	E	С	10
6	F	D, E	5
7	G	F	10

9.	<ul> <li>a) Sketch the project network diagram and compute the EST and LCT for eac activity.</li> </ul>	h [6M]
	b) Interpret the total project completion time.	[1M]
10.	a) Choose the critical activities using Floats	[5M]
	b) Show the critical path.	[2M]

(C.O.NO.3)[Application]

### SCHOOL OF MANAGEMENT

Sun note requiree?

Semester: Odd Sem 2019-20

Course Code: OPS202

Course Name: Project Management

Date: 17/10/2019

Time: 01.30 PM to 03.60 PM

Max Marks: 40

Weightage: 20%

### Extract of question distribution (outcome wise & level wise)

		alaura kan arang arang makan maka da masan sainta da Persang ang mengenerapan mananda bahada da da Persana da Sainta kan arang arang mananda da masan sainta da Persang da manang mengenerapan mananda bahada da da Persana	Mer	nory recall		Thoug	ht				
		Unit/Module		type		provoking type		Problem Solving		Total	
Q.NO	C.O.NO	Number/Unit	Ma [Ma	rks allotted	[Mar	rks all	otted]		type		Marks
B. C. St. II. C.		/Module Title	Blo	om's Levels	Bloc	m's L	evels	[Marl	ks ailo	tted]	
			K			С		A			
4	CO1	Module 1	2	A STATE OF THE STA							2
2	CO1	Module 1	2								2
3	CO1	Module 1	2								2
4	CO2	Module 2			4						4
5	CO2	Module 2			4						4
6	CO2	Module 2			4						4
7	CO2	Module 2			4						4
8	CO2	Module 2			4						4
9	CO3	Module 3						6	1		7
10	CO3	Module 3						5	2		7
	Total		6		20			11	3		40
	Marks										

K = Knowledge Level C = Comprehension Level, A = Application Level

Note: While setting all types of questions the general guideline is that about 60% Of the questions must be such that even a below average students must be able to

attempt, About 20% of the questions must be such that only above average students must be able to attempt and finally 20% of the questions must be such that only the bright students must be able to attempt.

{I hereby certify that all the questions are set as per the above guidelines.Dr. Anil B Gowda}

Reviewer's Comments:

### Annexure- II: Format of Answer Scheme



### SCHOOL OF MANAGEMENT

### SOLUTION

Semester: 3

Course Code: OPS202

Course Name: Project Management

Date: 17/10/2019

Time: 01.30 PM to 03.00 PM

Max Marks: 40

Weightage: 20%

### Part A

 $(3Q \times 2M = 6Marks)$ 

Q No	Solution	Scheme of Marking	Max. Time required for each Question
	Any four roles from the following could be stated. Planning and defining Scope; Planning resources; Selecting a team; Developing project objectives and Strategies; Performing risk management activities; Cost estimating and budgeting; Scheduling and Controlling; Business Partnering; Vendor Management.	0.5x4=2	h-Sømin
2	Four stages of Project Life Cycle are: (1) Initiation (Conceptualization) (2) Planning (Development) (3) Execution (Monitor and Control) (3) Closure (Termination)	0.5x4=2	4-50 min
3	Any two of the following determinants: Time- projects are constrained by specified time frame during which they must be completed. Cost – projects must meet budgeted allowances in order to use resources as efficiently as possible. Performance – measuring performance means determining whether the finished product operates according to specifications.	2x1=2	からの min

### Part B

 $(5Q \times 4M = 20Marks)$ 

Q No	Solution	Scheme of Marking	Max. Time required for each Question
4	Project Scope Management consist of naming all activities to be performed, the resources consumed, and the end products that result, including quality standards. Scope includes a projects Goal, Constraints and Limitations. Elements of Project Scope Management are: Conceptual Development, Scope Statement, Work Authorization, Scope Reporting, Control Systems and Project Closeout.	2+2=4	g We min

	Six sections as per PMBOK are: 5.1-Plan Scope Management; 5.2-Collect Requirements; 5.3-Define Scope; 5.4-Create WBS; 5.5-Validate Scope; 5.6-Control Scope.	nin kalar kum 1990a (usan 19 dalah kuli kuli kuli kuli kuli kuli kuli kuli	
5	AOA- is a project network diagram where an Activity is indicated by an Arrow. Two ends of the arrow or activity are indicated by means of circle known as event nodes. Give any day to day example to indicate AOA.  AON- is a project network diagram where an Activity is indicated by a circle. Activities are shown in nodes. Events are the arrows. Give any day to day examples to indicate AON.	2+2=4	9 12 min
6	ITTO of Monitor and Control: It is the process of tracking, reviewing and reporting the progress to meet the performance objectives defined in the project management plan. The key benefit of this process is that it allows stakeholders to understand the current state of the project, the steps taken and budget, schedule and scope forecasts.	2+2=4	9 12 min
	A super management about 1. Depting 1. Depti		
7	WBS: According to PMBOK, a WBS is a process that sets a project scope by breaking down its overall mission into a cohesive set of synchronous, increasingly specific tasks arranged in descending order. Each descending level represents an increasingly detailed definition of Products or Services.  WBS – Main purpose:  a) It is focused on project objectives b) It is organisation chart for projects c) It creates the logic for tracking costs, schedule and performance of each element. d) It is used to communicate project status. e) It is used to improve overall project communication. f) It demonstrates how projects will be controlled.	2+2=4	9 <b>12</b> min

8	ITTO of Project Charter: It is the process of developing a document that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities. The key benefit of this process is a well-defined project start and project boundaries, creation of a formal record of the project and a direct way for senior management to formally accept and commit to the project.    I Project statement of work   2 Business case   1 Project statement of work   2 Expert judgment   2 Pactivation techniques   1 Project charter   2 Pactivation techniques   1 Project charter   2 Pactivation techniques   3 Agreements   5 Organizations, process assets   2 Pactivation techniques   3 Agreements   4 Project charter   2 Pactivation techniques   3 Agreements   4 Project charter   2 Pactivation techniques   3 Agreements   4 Project charter   4 Pr	2+2=4	9 12 min	
---	--	-------	----------	--

Part C

 $(2Q \times 7M = 14Marks)$ 

Q No	Solution	Scheme of Marking	Max. Time required for each Question
9 a	Project Network Diagram is shown below. EST1=0 (start time) EST2=EST1+DA=0+10=10days Similarly, other ESTs are calculated and the values are shown in the diagram.  LCT7 = EST 7= 52 days LCT6 = LCT7-DG = 52-10=42 days Similarly, other LCTs are calculated and values shown in diagram.	3+3=6	13.5 6 min
9 b	Total Project Completion time is the EST of last node 7. EST of 7 = 52 days. Therefore, Project Completion time = 52 days	1	8 min 2.25

10 a	Float C	alculation	shown	in Tal	ble.		5	<b>%</b> min
· Liver Carrier Constitution	SN	Activity	FF	TF	Page 1	Critical / Non-Critical		,5
	I	A	0	0	0	Critical		
	2	В	0	0	0	Critical		
a productive and the second of	3	С	0	9	0	Non-Critical		
to the factorial property of the factorial p	4	D	0	0	0	Critical	100	
en manorate en	5	E	9	9	8	Non-Critical	The second secon	
	6	F	0	0	0	Critical		
N 100 100 100 100 100 100 100 100 100 10	7	G	0	0	0	Critical		
£0 %	. Critical	Path is A	D	n e			2	6 min
	1	e double li		2	4.5			





Roll No.				
----------	--	--	--	--

### PRESIDENCY UNIVERSITY **BENGALURU**

### SCHOOL OF MANAGEMENT

### END TERM FINAL EXAMINATION

Semester: Odd Semester 2019-20

Course Code: OPS 202

Course Name: PROJECT MANAGEMENT

Program & Sem: MBA & III

Date: 23 December 2019

Time: 1:00 PM to 4:00 PM

Max Marks: 80

Weightage: 40%

### Instructions:

(i) Answer all questions given in each part.

### Part A [Memory Recall Questions]

### Answer all the sub-Questions. Each sub Question carries 4 marks.

(5Qx4M=20M)

1. a) List 2 advantages of Earned Value Management (EVM).

(C.O.No.4)[Knowledge]

b) List the four sections of Project Cost as per PMBOK.

(C.O.No.3)[Knowledge]

c) Identify any four methods used for best choice in MCDM.

(C.O.No.2)[Knowledge]

d) State the tools and techniques for Close Project.

(C.O.No.5)[Knowledge]

e) Mention any 4 purposes of WBS.

(C.O.No.1)[Knowledge]

### Part B [Thought Provoking Questions]

### Answer all the Questions. Each Question carries 6 marks.

(5Qx6M=30M)

2. Write short notes on Scope Management.

(C.O.No.1)[Comprehension]

3. Discuss ITTO of Plan Communication Management as per PMBOK

(C.O.No.5)[Comprehension]

4. Construct a project network diagram using AOA notation and estimate project completion (C.O.No.3)[Comprehension] time:

#	Activity	P-Activity	Duration (months)
1	А	-	2
2	В	А	1
3	С	В	3
4	D	В	2
5	E	С	1
6	F	D,E	4

5. Classify the various Risks in Project Management and explain each?

(C.O.No.4)[Comprehension]

6. Explain the time cost tradeoff in crashing of project. What will be the influence of indirect cost and penalty cost on the total project cost while crashing?

(C.O.No.3)[Comprehension]

### Part C [Problem Solving Questions]

### Answer both the Questions.

(2Q=30M)

- 7. Interpret the terms Predecessors, Successor, Merge activities, Burst activities and Node with the help of a sketch of Project network. (10M) (C.O.No.3)[Application]
- 8. A Project consists of 7 activities. The details of the activities in terms of normal cost, crash cost per week, normal duration and permitted crash is provided in the following table.

(20M) (C.O.No.3&4)[Knowledge, Application]

SN	Activity	P-Activity	Normal Duration (weeks)	Normal Cost (\$100)	Crash permitted (weeks)	Crash cost per week (\$100)
1	Α		7	4	1	11
2	В	Α	2	8	0	5
3	С	Α	4	4	1	5
4	D	В	8	9	0	6
5	Е	С	4	4	2	4
6	F	D,E	4	6	1	7
7	G	F	2	8	0	8

- a) Sketch a neat network diagram to indicate activities and nodes.
- b) Compute the normal project duration and normal project cost.
- c) Demonstrate sample calculation of EST, LCT, Slack and Floats.
- d) Compute the Crashed project duration and Crashed project cost.

### **SCHOOL OF MANAGEMENT**

Semester: Odd Sem 2019-20

Course Code: OPS202

Course Name: Project Management

Date: 23 December 2019

Time: 1:00PM to 4:00 PM

Max Marks: 80

Weightage: 40%

### Extract of question distribution [outcome wise & level wise]

Q. NO	C.O.N O	Unit/Mo dule Number /Unit /Module Title		[Mai	type ks a m's L	: llotte	ed]	Thought provoking type [Marks allotted] Bloom's Levels	Problem Solving type [Marks allotted]	Total Marks
				,	1	Ţ	1			
1	1,2,3, 4,5	1,2,3,4, 5	4	4	4	4	4			20
2	1	1						6		6
3	5	5						6		6
4	3	3						6		6
5	4	4						6		6
6	3	3						6		6
7	3	3							10	10
8	4	4 ·	2	3	2	3			10	20
	Total Marks		6	7	6	7	4	30	20	80

Note: While setting all types of questions the general guideline is that about 60%

Of the questions must be such that even a below average students must be able to attempt, About 20% of the questions must be such that only above average students must be able to attempt and finally 20% of the questions must be such that only the bright students must be able to attempt.

I hereby certify that all the questions are set as per the above guidelines.

Name of faculty:

De AmilB Cowle
Associate projent (Son) Chapter

Reviewer's Comments:

# PRESIDENCY UNIVERSITY

## SCHOOL OF MANAGEMENT

SET<sub>2</sub>

**ENDTERM FINAL EXAMINATION** 

Semester: Odd Semester 2019-20 Course Code: OPS 202 Course Name: Project Management

Program & Sem: MBA III SEM

Date: 23 December 2019

Time: 1:00 PM to 4:00 PM

Max Marks: 80

Weightage: 40%

 $(5Q \times 4M = 20Marks)$ 

Part A

<ul><li>e) Four purpo</li></ul>
Four purpose of WBS:

2	Q No		
Scope Management: Scope Management consist of naming all activities to be performed, the resources consumed, and the end products that result, including quality standards. Scope includes a projects Goal, Constraints and Limitations. Elements of Project Scope Management are: Conceptual Development, Scope Statement, Work Authorization, Scope Reporting, Control Systems, and Project Closeout.	Solution	Part B	e) Four purpose of WBS: It is focused on project objectives, it is organization chart for projects, creates the logic or tracking and schedule etc., it is used to improve overall project communication.
6	Scheme of Marking		4
COI	Course Outcome No. as per the Handout		CO1
Comprehension	Bloom's Level		
	Learning Objective No. as per Handout	(5Q x 6M	
13.5	Max. Time required for each Question	(5Q x 6M = 30Marks)	9

	5. Legal Risk: It is with projects in which strict terms and conditions are drawn in advance in order to control the project.				
6	Normal Cost: It is the total cost of all the costs associated with each activity. Normal cost refers to the cost of completing a project in the normal course of execution. Crash Cost: It is the cost associated with the activity related to its crashing. Crash cost is the increased cost because of additional resources deployed to reduce the duration of activity. By crashing a project the duration of the project is reduced thereby the project cost increases.  Time cost tradeoff: As time decreases with crashing, the crash cost increases the project cost. However tthere are indirect cost and penalty cost which decreases. A plot of all the factors is caleed the time cost tradefoff chart.  Explain the influence of indirect cost and penalty cost in the form of a cost curve that is decreasing compare to the cost curve increase in crashing the project.	6	C03	Comprehension	13.5

PART C

Max. Time required for each Question

22.5

Learning Objective No. as per Handout		
Bloom's Level	Analysis	
Course Outcome No. as per the Handout	CO3	
Scheme of Marking	10	
Solution	B B D F C E E C E	Predecessor activity : an activity upon whose completion the next activity commences. Ex A is predecessor of Activity B and also activity C.  Successor activity : An activity that commences upon completion of an activity immediately. Activity f is the successor of activities D and E.  Merge : When activities meet at a point / node as in diagram activities D and E.  Burst : when activities commences from a node as in diagram activities B and C.  Node : the end points of an activity is the node. Tail node and head node. Tail indicates start and head indicates finish point of the activity. For activity E, node 4 is tail and node 5 is head.
ON ON	<b>L</b>	





