B.E. (Cin'l). Sem VIII . CBSns. Rev -2012

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CM

(3 Hours)

Q. P. Code: 27461 [Total Marks: 80].

NOTE:.

i) Question No. 1 is compulsory.

- ii) Attempt any THREE out of the remaining five questions.
- iii) Figure to the right indicates full marks
- iv) Assume any suitable data and clearly state the same.
- Q.1 A) What do you understand by ABC analysis? Explain with an example.
  - B) Write difference between quality control and quality assurance.
  - C) Write a note on feasibility studies for a construction project.
  - D) Write a note on workman compensation act specifying the compensation for various types of injuries.
  - E) Write a short note on occupational health hazards in construction industry.
- Q2 The following table shows the detail of activity of a small work. Construct the network of the work.

Contract the network crashing it to optimum value and calculate the optimum project cost. Indirect cost = Rs.300 / per day.

Activity	Normal
	Times in days Cost in Rs. Times in days Cost in Rs.
1-2	9 8000 6 9500
2-3	5 5000 3 5500

B) Explain in detail the contribution made by Henry Fayol in the evolution of management Lought.

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- Q.3 : small project is composed of seven activities as given below:
  - 2) Draw project network
  - Find expected duration, standard deviation and variance of all activities.

Find the expected time for completion of project with 84.13% probability.

Activity	Estimated Duration (week)							
	Optimistic .	Most Likely	Pessimistic					
		<b>6</b>	15					
t & 6		5	14					
2 3	6	12	30					
2 4 4	2	5	8					
3.86.88	5.	11	17					
45055555	\$ 3 4 <b>3</b>	6	15					
	\$\d\@3\d\\	9	27					
<b>5</b> 56687878	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4	7					
	\$ 4	19	28					

Z 0.1 0.5 1 1.5	2	2.5	3	-0.1	-0.5	-1	-1.5	-2	-2.5	-3
P 53.98 69.15 84.13 93.32	97.72	99.38	99.87	46.02	30.85	15.87	6.68	2.28	0.62	0.13

B) What is time overrun and cost overrun? What are the common causes and suggest the corrective measure to avoid time and cost overrun.

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				in tha	follov	ving t	able:					12
Q.4	A) Activity data for	a small project	et is given	I in the	D	E	F	G	Н	I I		
7	Activity	A	<u> B</u>	C	<u> </u>	B	C	D,E		HF		
	Preceding activity	-	<u> </u>	<del>-</del>	$\frac{A}{2}$		9	8	- C - C - C - C	9		
	Duration (days)	3	5	4	2	3_	19 ,	1:0				1
	I- Draw AOA Netw	ork					ξ <sup>(1</sup> , 1, 4)	No.	E			No.
	ii- Work out activity times and floats iii- Determine project duration and critical path										1,1 1,	
						ry, v			പ്പാത്ര			08
	B) Explain the stag	es of planning	g of a con	struction	on pro	ject b	y cont	ractor al	RG GASTÉ			
	D) Emplois				Ŷ.				and a second	obrza fin	e moject	12
Q.5	A) A project consis	sts of activitie	s given in	the ta	ble be	low. I	Jraw t	ne netw	OTS 122	21	rd	\
Q.J	A) A project consist from point of view	of resources	to bring o	ut the	necess	ary st	eps in	voived i	n mez.	<u>'='}2'2'2</u> e	1.C	
	smoothing of resou	rces.		7.1		100	- 11					
		2-3 2-4	3-5	4-6	4-7	5-8	6-				<u>.0    </u> [	
	Activity 1-2 Week 2	$\frac{23}{3} + \frac{2}{4}$	2	4.50	3 .	6	6	· 5	- 2	= =====================================		
		3 3		3/20/3	4 :	3	6	2_		<del>.</del>	<u>-</u>	
	111011											^0
	B) Explain the role	a of verious	agenciës i	nvolve	d in a	ny co	nstruc	tion pro	ect.			08
	B) Explain the role	es of various	1gonerou 1					32				00
	A) What do you u	1-metand bay	a bar char	4? Pret	oare a	bar cl	art fo	r constr	ictica ci	fRCC:	retaining	08
Q.6	A) What do you u wall, 30 m long, 2	nderstand by	a vai ona. I Identi	fy the	variou	s acti	vities	involved	Lgiveti	ie reliti	.cr.ship	
	wall, 30 m long, 2	.0 m above 0	Transport	Coart	data re	anire	$\mathbf{d}$					
	among the activiti	es. Assume a	II rue neec	288ai y		ALC:						26 84
as a require management in construction sector.											06	
B) Explain the need and purpose of human resource management in construction section.												
	in sleaning & controlling of construction and and										06	
	C) What is WBS and its importance in planning & controlling of construction 200											
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