LEARNING OBJECTIVES

LO 1	How do job order and process costing systems as well as their related valuation methods differ?
LO 2	What constitutes a "job" from an accounting standpoint?
LO 3	What purposes are served by the primary documents used in a job order costing system?
LO 4	What journal entries are used to accumulate costs in a job order costing system?
LO 5	How do technological changes impact the gathering and use of information in job Order costing systems?
LO 6	How are standard costs used in a job order costing system?
LO 7	How does information from a job order costing system support management decision making?
LO 8	How is spoilage treated in a job-order costing system?

QUESTION GRID

True/False

	Di	fficulty Leve		Learning Objectives									
	Easy	Moderate		LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8		
1	Х			Х									
2	Х			Х									
3	Х			Х									
4	Х			Х									
5	Х			Х									
6	Х			Х									
7	Х			Х									
8	Х			Х									
9	Х			Х									
10	Х			Х									
11	Х			Х									
12	Х			Х									
13		Х		Х									
14	Х			Х									
15		Х		Х									
16		Х		Х									
17		Х		Х									
18		Х		Х									
19	Х				Х								
20	Х						Х						
21		Х					Х						
22		Х					Х						
23		Х					Х						
24	Х						Х						
25	Х						Х						
26	Х						Х						

	Diff	ficulty Leve		Learning Objectives								
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	
27	Х								х			
28	Х						Х					
29	Х						Х					
30	Х						Х					
31		Х							х			
32		Х									х	
33		Х									х	
34		Х									х	
35		Х									х	
36		Х									х	
37		Х									х	
38		Х									Х	

Completion

	Dif	Difficulty Level			Learning Objectives									
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8			
1	Х			Х										
2	Х			Х										
3	Х			Х										
4	Х			Х										
5	Х			Х										
6	Х			Х										
7		Х		Х										
8	Х						Х							
9	Х						Х							
10	Х						Х							
11	Х						Х							
12	Х						Х							
13	Х						Х							
14	Х						Х							
15	Х						Х							
16	Х								Х					
17	Х										Х			
18	Х										Х			
19	Х								Х					
20	Х								Х					

Multiple Choice

	Diff	ficulty Lev	Learning Objectives								
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8
1		Х		Х							
2	Х			Х							
3	Х			х							
4	Х			х							
5	Х			х							
6	Х			х							
7	Х			х							
8	Х			х							
9	Х						Х				

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	Difficulty Level			Learning Objectives							
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8
10	Х			Х							
11	Х						Х				
12	Х						Х				
13	Х						Х				
14	Х						Х				
15	Х						Х				
16	Х					Х					
17	Х					Х					
18	Х					Х					
19	Х					Х					
20	Х					Х					
21	Х					Х					
22	Х					х					
23	Х					х					
24	Х						Х				
25	Х						Х				
26	Х						Х				
27	Х						Х				
28	Х						Х				
29	Х						Х				
30	Х						Х				
31	Х						Х				
32	Х						Х				
33	Х						Х				
34	Х						Х				
35	Х						Х				
36	Х						х				
37	Х								Х		
38	Х							х			
39	Х										
40	Х								х		
41	Х			Х							
42		х		Х							
43		х		Х							
44	Х									Х	
45	Х			Х							
46			х	Х							
47			Х						Х		
48	Х										х
49	Х										х
50		х									х
51		х									х
52		Х									х
53	Х										х
54	Х										Х
55	Х										х
56	Х										Х
57	Х										х

	Difficulty Level					Le	earning	Objectiv	es		
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8
58		Х									Х
59		Х					Х				
60	Х						Х				
61	Х						Х				
62	Х						Х				
63			Х				Х				
64	Х						Х				
65		Х					Х				
66	Х						Х				
67		Х					Х				
68		Х					Х				
69		Х					Х				
70		Х					Х				
71			Х				Х				
72		Х					Х				
73	Х						Х				
74	Х						Х				
75		Х					Х				
76		Х					х				
77	Х						Х				
78	Х						Х				
79	Х						Х				
80	Х						х				
81	Х						х				
82	Х						х				
83	Х						х				
84		Х					Х				
85		Х							х		
86		Х							х		
87			Х						х		

Short-Answer

OHOIT AHS	(Allowe)												
	Diff	Difficulty Level			Learning Objectives								
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8		
1		Х		Х									
2		Х		Х									
3		Х			х								
4		Х				х							
5		Х				х							
6		Х							х				
7		Х									Х		

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Problem

	Diff	ficulty Leve	Learning Objectives									
	Easy	Moderate	Difficult	LO 1	LO 2	LO 3	LO 4	LO 5	LO 6	LO 7	LO 8	
1	X						Х					
2		Х					х					
3		Х					х					
4		Х					х					
5	Х						х					
6	Х						х					
7		Х					х					
8	Х						х					
9	Х						Х					
10		Х					Х					
11		Х									х	

TRUE/FALSE

1.	A company that prod	uces su	igar will use a j	ob orde	er costing system to track production costs.				
	ANS: F	DIF:	Easy	OBJ:	4-1				
2.	A company that prod	uces su	ıgar will use a p	rocess	costing system to track production costs.				
	ANS: T	DIF:	Easy	OBJ:	4-1				
3.	A company that man production costs	ufactur	es custom brida	l gown	s will use a job order costing system to track				
	ANS: T	DIF:	Easy	OBJ:	4-1				
4.	A company that man	ufactur	es custom brida	l gown	s will use a process costing system to track costs.				
	ANS: F	DIF:	Easy	OBJ:	4-1				
5.	A company that man system	ufactur	es small quantit	ies of i	dentifiable products will use a job order costing				
	ANS: T	DIF:	Easy	OBJ:	4-1				
6.	A company that man system	ufactur	es small quantit	ies of i	dentifiable products will use a process costing				
	ANS: F	DIF:	Easy	OBJ:	4-1				
7.	A company that man	ufactur	es large quantit	ies of h	omogenous goods will use a process costing system.				
	ANS: T	DIF:	Easy	OBJ:	4-1				
8.	In an actual job order	costin	g system, factor	ry over	head is assigned to a job on a periodic basis.				
	ANS: T	DIF:	Easy	OBJ:	4-1				
9.	A company that man system.	ufactur	es large quantit	ies of h	omogenous goods will use a job order costing				
	ANS: F	DIF:	Easy	OBJ:	4-1				
10.	Cost flows and physi	cal flov	vs of units are i	dentica	1.				
	ANS: F	DIF:	Easy	OBJ:	4-1				
11.	In an actual job-order costing system, factory overhead is assigned to a job continuously during the production process.								
	ANS: F	DIF:	Easy	OBJ:	4-1				

12.	in a normal job orde.	COSTIII	g system, actua	1 Tactor	y overhead is applied at the end of the period
	ANS: F	DIF:	Easy	OBJ:	4-1
13.	In a normal job orde	r costin	g system, factor	ry overl	head is applied using actual rates times actual input
	ANS: F	DIF:	Moderate	OBJ:	4-1
14.	In a normal job orde actual input.	r costin	g system, factor	ry overl	head is applied using predetermined rates times
	ANS: T	DIF:	Easy	OBJ:	4-1
15.	In a normal job orde standard input	r costin	g system, factor	ry overl	head is applied using predetermined rates times
	ANS: F	DIF:	Moderate	OBJ:	4-1
16.	In a standard job ord standard input.	er costi	ng system, fact	ory ove	rhead is applied using predetermined rates times
	ANS: T	DIF:	Moderate	OBJ:	4-1
17.	In a standard job ord input.	er costi	ng system, fact	ory ove	rhead is applied using actual rates times standard
	ANS: F	DIF:	Moderate	OBJ:	4-1
18.	In a standard job ord actual input.	er costi	ng system, fact	ory ove	rhead is applied using predetermined rates times
	ANS: F	DIF:	Moderate	OBJ:	4-1
19.	In a job order costing	g systen	n, costs are acci	umulate	ed for each individual job
	ANS: T	DIF:	Easy	OBJ:	4-2
20.	When raw materials	are plac	ced into produc	tion, the	e materials inventory account is debited
	ANS: F	DIF:	Easy	OBJ:	4-4
21.	When manufacturing	g overhe	ead is charged t	o a job,	the work in process account is debited.
	ANS: T	DIF:	Moderate	OBJ:	4-4
22.	When manufacturing	g overhe	ead is charged t	o a job,	the manufacturing overhead account is debited.
	ANS: F	DIF:	Moderate	OBJ:	4-4
23.	When manufacturing	g overhe	ead is charged t	o a job,	the work in process account is credited.
	ANS: F	DIF:	Moderate	OBJ:	4-4

24.	When indirect labor is applied to a job in process, the manufacturing overhead account is debited.										
	ANS: F	DIF:	Easy	OBJ:	4-4						
25.	When indirect labor	is recor	ded for a job in	proces	s, the work in process account is debited.						
	ANS: F	DIF:	Easy	OBJ:	4-4						
26.	Standards can be cor	nputed	for materials, 1	abor, an	nd overhead.						
	ANS: T	DIF:	Easy	OBJ:	4-4						
27.	Standards can be use	d in a j	ob order costin	g syster	m if the products manufactured are similar in nature.						
	ANS: T	DIF:	Easy	OBJ:	4-6						
28.	Overapplied factory	overhea	ad that is mater	ial in ar	mount is closed to cost of good sold at year end.						
	ANS: F	DIF:	Easy	OBJ:	4-4						
29.	Overapplied factory	overhea	ad that is imma	terial in	amount is closed to cost of good sold at year end.						
	ANS: T	DIF:	Easy	OBJ:	4-4						
30.	Overapplied overhea in Process, and Cost				s allocated between Finished Goods Inventory, Work						
	ANS: T	DIF:	Easy	OBJ:	4-4						
31.	Standards can be use	ed in a j	ob order costin	g syster	m if the products manufactured are varied in nature.						
	ANS: F	DIF:	Moderate	OBJ:	4-6						
32.	If a normal loss is an for the cost of defect				e overhead application rate should include an amount						
	ANS: T	DIF:	Moderate	OBJ:	4-8						
33.	If a normal loss is an the cost of defective	_			nead application rate should include an amount for						
	ANS: F	DIF:	Moderate	OBJ:	4-8						
34.	Normal spoilage is c	onsider	ed a period cos	t							
	ANS: F	DIF:	Easy	OBJ:	4-8						
35.	Abnormal spoilage is	s consid	dered a period o	cost							
	ANS: T	DIF:	Easy	OBJ:	4-8						

36.		nal entry to r n Process	ecord n	ormal spoilage	e specifi	cally identifi	ied with a	particula	ır job inclu	des a debit
	ANS: F		DIF:	Moderate	OBJ:	4-8				
37.		nal entry to r Work in Pro		ormal spoilage	e specifi	cally identifi	ied with a	particula	ır job inclu	des a
	ANS: T		DIF:	Moderate	OBJ:	4-8				
38.	Spoilage overhead	_	n specif	ic jobs should	be cons	idered in cor	nputing pi	redeterm	ined factor	У
	ANS: F		DIF:	Moderate	OBJ:	4-8				
COM	PLETION	J								
1.	A compar productio		ıfacture	es sugar will us	se a			costing	system to t	rack
	ANS: pr	ocess								
	DIF: Ea	nsy	OBJ:	4-1						
2.		ny that manu		es custom brida	al gown	s will use a _			costing sys	stem to
	ANS: jol	b-order								
	DIF: Ea	nsy	OBJ:	4-1						
3.	_	ny that manu		es large quantit g system.	ies of h	omogeneous	goods wil	ll norma	lly use a	
	ANS: pr	ocess								
	DIF: Ea	nsy	OBJ:	4-1						
4.	A compar costing sy		ıfacture	es small quanti	ties of i	dentifiable p	roducts wi	ill use a ₋		
	ANS: jol	b order								
	DIF: Ea	nsy	OBJ:	4-1						
5.	Three me	thods of job	-cost va	aluation are no	rmal, st	andard, and ₋			·	
	ANS: ac	tual								
	DIF: Ea	nsy	OBJ:	4-1						

6.	In a norm		costing	g system, factory overhead is applied using	rates times
	ANS: pr	redetermined	;actual		
	DIF: E	asy	OBJ:	4-1	
7.	In a stand		r costii	ng system, factory overhead is applied using	rates times
	ANS: pr	redetermined	;standa	ard	
	DIF: M	Ioderate	OBJ:	4-1	
8.	When a j	job is begun,	the firs	st document in the job order process is the	·
	ANS: m	naterials requi	isition		
	DIF: E	asy	OBJ:	4-4	
9.	When ra	w materials a	re plac	eed into production, the	account is debited
	ANS: W	Vork in proce	SS		
	DIF: E	asy	OBJ:	4-4	
10.	When in	direct materia	als are	added to a job, the	_ account is debited.
	ANS: m	nanufacturing	overh	ead	
	DIF: E	asy	OBJ:	4-4	
11.	When m	anufacturing	overhe	ad is applied to a job in process, the	is debited
	ANS: w	ork in proces	SS		
	DIF: E	asy	OBJ:	4-4	
12.	When macredited.	_	overhe	ead is applied to a job in process, the	account is
	ANS: m	nanufacturing	overh	ead	
	DIF: M	Ioderate	OBJ:	4-4	
13.	The docu	ument that co	ntains	all information about the costs of a specific job is a	ı
	ANS: jo	ob order cost	 sheet		
	DIF: E	asy	OBJ:	4-4	

14.	When indirect labor is recorded for a job in process,	is debited.
	ANS: manufacturing overhead	
	DIF: Easy OBJ: 4-4	
15.	When production is completed on a job, finished goods are transferred to the account.	
	ANS: Finished Goods Inventory	
	DIF: Easy OBJ: 4-4	
16.	The difference between a standard and an actual quantity, price, or rate is a(n)	
	ANS: variance	
	DIF: Easy OBJ: 4-6	
17.	If a substandard product can be reworked, it is known as a	
	ANS: defect	
	DIF: Easy OBJ: 4-8	
18.	If a substandard product cannot be reworked, it is known as	
	ANS: spoilage	
	DIF: Easy OBJ: 4-8	
19.	Underapplied factory overhead that is immaterial in amount is closed toyear end.	
	ANS: Cost of Goods Sold	
	DIF: Easy OBJ: 4-6	
20.	Underapplied factory overhead that is material in amount is closed to at year end.	
	ANS: Work in Process, Finished Goods Inventory, Cost of Goods Sold	
	DIF: Easy OBJ: 4-6	

MULTIPLE CHOICE

1.	Which of the following organizations would be most likely to use a job order costing system? a. the loan department of a bank b. the check clearing department of a bank c. a manufacturer of processed cheese food d. a manufacturer of video cassette tapes							
	ANS: A	DIF:	Moderate	OBJ:	4-1			
2.	When job order costia. department.b. supervisor.c. item.d. job.	ng is us	sed, the primary	y focal j	point of cost accumulation is the			
	ANS: D	DIF:	Easy	OBJ:	4-1			
3.	 a. standards cannot be used. b. an average cost per unit within a job cannot be computed. c. costs are accumulated by departments and averaged among all jobs. d. overhead is typically assigned to jobs on the basis of some cost driver. 							
	ANS: D	DIF:	Easy	OBJ:	4-1			
4.	What is the best cost specifications, are properties a. job order b. process c. actual d. standard			re to us	se when many batches, each differing as to product			
	ANS: A	DIF:	Easy	OBJ:	4-1			
5.	Which of the following as standards b. an average cost process of the control of the following and average cost process of the control of the following and allocated and the cost of the following and the follow	per unit	for all jobs	direct la	abor hours			
	ANS: B	DIF:	Easy	OBJ:	4-1			

6. Which of the following costing methods of valuation are acceptable in a job order costing system?

	Actual Material <u>Cost</u>	Standard Material <u>Cost</u>	Actual Labor <u>Cost</u>	Predetermined Overhead <u>Cost</u>
a.	yes	yes	no	yes
b.	yes	no	yes	no
c.	no	yes	yes	yes
d.	yes	yes	yes	yes
A	NS: D	DIF: E	asy OI	BJ: 4-1

7. Which of the following costing systems allows management to quickly recognize materials, labor, and overhead variances and take measures to correct them?

Actual	Cost System		Norma	1 Cost S	ystem	
a.	yes			yes		
b.	yes			no		
c.	no			yes		
d.	no			no		
ANS:	D	DIF:	Easy		OBJ:	4-1

- 8. In a normal cost system, a debit to Work in Process Inventory would **not** be made for
 - a. actual overhead.
 - b. applied overhead.
 - c. actual direct material.
 - d. actual direct labor.

ANS: A DIF: Easy OBJ: 4-1

- 9. Which of the following are drawbacks to applying actual overhead to production?
 - a. A delay occurs in assigning costs to jobs or products.
 - b. Fluctuations in quantities produced during a period could cause varying per-unit charges for fixed overhead.
 - c. Seasonality of overhead costs may cause distortions in job or product costs.
 - d. all answers are correct.

ANS: D DIF: Easy OBJ: 4-4

10. Job order costing and process costing have which of the following characteristics?

Job Order Costing

Process Costing

a. homogeneous products and large quantities

b. homogeneous products and small quantities

c. heterogeneous products and large quantities

d. heterogeneous products and small quantities heterogeneous products and small quantities

heterogeneous products and large quantities

homogeneous products and small quantities

homogeneous products and large quantities

ANS: D DIF: Easy OBJ: 4-1

- 11. A credit to Work in Process Inventory represents
 - a. work still in process.
 - b. raw material put into production.
 - c. the application of overhead to production.
 - d. the transfer of completed items to Finished Goods Inventory.

ANS: D

DIF: Easy

OBJ: 4-4

- 12. In a job order costing system, the dollar amount of the entry that debits Finished Goods Inventory and credits Work in Process Inventory is the sum of the costs charged to all jobs
 - a. started in process during the period.
 - b. in process during the period.
 - c. completed and sold during the period.
 - d. completed during the period.

ANS: D

DIF: Easy

OBJ: 4-4

- 13. Total manufacturing costs for the year plus beginning Work in Process Inventory cost equals
 - a. cost of goods manufactured in the year.
 - b. ending Work in Process Inventory.
 - c. total manufacturing costs to account for.
 - d. cost of goods available for sale.

ANS: C

DIF: Easy

OBJ: 4-4

- 14. Which of the following would be **least** likely to be supported by subsidiary accounts or ledgers in a company that employs a job order costing system?
 - a. Work in Process Inventory
 - b. Raw Material Inventory
 - c. Accounts Payable
 - d. Supplies Inventory

ANS: D

DIF: Easy

OBJ: 4-4

15.	A journal entry includes a debit to Work in Process Inventory and a credit to Raw Material Inventory. The explanation for this would be that a. indirect material was placed into production. b. raw material was purchased on account. c. direct material was placed into production. d. direct labor was used for production.							
	AN	IS:	C	DIF:	Easy	OBJ:	4-4	
16.	the a. b. c. d.	job bill into ma	o order cost shall of lading. eroffice memoterial requisit	neet.	cords the amou		w material that has been requested by production is	
	AN	IS:	D	DIF:	Easy	OBJ:	4-3	
17.	a. b. c.	job qua uni	erial requisition on number. Antity required it cost. Irchase order rechase order rech	d.	should show all	l of the	following information except	
	AN	IS:	D	DIF:	Easy	OBJ:	4-3	
18.	 a. All job order cost sheets serve as the general ledger control account for Work in Process Inventory. b. Job order cost sheets can serve as subsidiary ledger information for both Work in Process Inventory and Finished Goods Inventory. c. If material requisition forms are used, job order cost sheets do not need to be maintained. d. Job order cost sheets show costs for direct material and direct labor, but not for manufacturing overhead since it is an applied amount. 						edger control account for Work in Process edger information for both Work in Process er cost sheets do not need to be maintained. erial and direct labor, but not for	
	AN	IS:	В	DIF:	Easy	OBJ:	4-3	
19.	a. b. c.	bill job em	imary account l of materials. o order cost shaployee time s terials requisi	ieet. heet.	ument in a job	order c	osting system is a(n)	
	AN	IS:	В	DIF:	Easy	OBJ:	4-3	
20.	a. b. c.	Fir Ra Wo	st sheets for in hished Goods w Material In ork in Process pplies Invento	Inventory ventory Inventor	ry.	nd of th	ne period comprise the subsidiary ledger for	
	AN	IS:	С	DIF:	Easy	OBJ:	4-3	

21.	 The provides management with a historical summation of total costs for a given product. a. job order cost sheet b. employee time sheet c. material requisition form d. bill of lading 						
	ANS: A	DIF: Easy	OBJ: 4-3				
22.	The source documer rate is the a. job order cost sh b. employee time sh c. interoffice mem d. labor requisition	neet. sheet. o.	mount of time an employee worked on a job and his/her pay	,			
	ANS: B	DIF: Easy	OBJ: 4-3				
23.	production? a. debit Work in P. b. debit Work in P.	rocess Inventory, cre rocess Inventory, cre uring Overhead, cred	edit Manufacturing Overhead lit Work in Process Inventory				
	ANS: D	DIF: Easy	OBJ: 4-4				
24.	In job order costing, accounted for as a. direct labor cost b. manufacturing of c. indirect labor cod. administrative c	overhead cost.	by the employer for factory employees are commonly				
	ANS: B	DIF: Easy	OBJ: 4-4				
25.	credit to Prepaid Ins a. the insurance co b. overhead for ins c. insurance for pre d. insurance was p	surance is	expired.				
	ANS: C	DIF: Easy	OBJ: 4-4				
26.	The journal entry to and a debit to a. Finished Goods b. Work in Process c. Cost of Goods S d. Raw Material In	Inventory. s Inventory. Sold.	oroduction includes a credit to Manufacturing Overhead cor OBJ: 4-4	ıtrol			
	ANG. D	DII'. Easy	∪ дј. ч-ч				

27.	a. b. c.	fac fac pro	tory depreciati tory employee duction line la	ion and s' cafet abor.	ot include the c supplies. eria departmen	ts.	
	AN	IS:	C	DIF:	Easy	OBJ:	4-4
28.	led a. b. c.	ger a stor wo ma	o order costing as an increase res control. rk in process conufacturing over nufacturing over	in control. verhead	applied.	lirect m	naterial would usually be reflected in the general
	AN	IS:	D	DIF:	Easy	OBJ:	4-4
29.	a. b. c.	act	ual cost of ove ual cost of ove ount of overhe	erhead i erhead p ead app	ncurred. paid this period lied to producti	on.	count represents the ring the period.
	AN	IS:	C	DIF:	Easy	OBJ:	4-4
30.	req a. b. c. d.	uire Cas Ma Ma	s a debit to sh and a credit nufacturing O nufacturing O ork in Process	to Mar verhead verhead	nufacturing Ove d and a credit to d and a credit to ory and a credit	erhead. Accou	unts Payable. h.
	AIN	ND:	C	DIF:	Easy	ODJ:	4-4
31.	a.b.c.d.	at t as j at t at t	he end of a pe obs are compl he end of a pe he end of a pe	riod. eted. riod or riod or	as jobs are con	npleted, npleted,	, whichever is earlier. , whichever is later.
	AN	IS:	C	DIF:	Easy	OBJ:	4-4
32.	a. b. c.	all job job	job order cost order cost she order cost she	sheets. eets for eets for	all uncomplete all completed j	d jobs. obs not	
	AN	IS:	С	DIF:	Easy	OBJ:	4-4

33.	Underapplied overhead resulting from unanticipated and immaterial price increases for overhead items should be written off by a. decreasing Cost of Goods Sold. b. increasing Cost of Goods Sold. c. decreasing Cost of Goods Sold, Work in Process Inventory, and Finished Goods Inventory. d. increasing Cost of Goods Sold, Work in Process Inventory, and Finished Goods Inventory.
	ANS: B DIF: Easy OBJ: 4-4
34.	Overapplied overhead would result if a. the plant were operated at less than normal capacity. b. overhead costs incurred were less than costs charged to production. c. overhead costs incurred were unreasonably small in relation to units produced.

- d. overhead costs incurred were greater than costs charged to production.

ANS: B DIF: Easy OBJ: 4-4

- 35. Debits to Cost of Goods Sold typically represent the
 - a. transfer of completed items to Finished Goods Inventory.
 - b. costs of items sold.
 - c. selling price of items sold.
 - d. the cost of goods manufactured.

ANS: B DIF: Easy OBJ: 4-4

- 36. In a perpetual inventory system, a transaction that requires two journal entries (or one compound entry) is needed when
 - a. raw materials are purchased on account.
 - b. goods are sold for either cash or on account.
 - c. goods are finished and transferred out of Work in Process Inventory.
 - d. overhead is applied to Work in Process Inventory.

ANS: B OBJ: 4-4 DIF: Easy

- 37. Which of the following statements is **false**?
 - a. While the use of standard costing is acceptable for job order costing systems, actual cost records should still be maintained.
 - b. It is normally more time-consuming for a company to use standard costs in a job order costing system.
 - c. Standards can be used in a job order costing system, if the company usually produces items that are similar in nature.
 - d. Standard costs may be used for material, labor, or both material and labor in a job order costing environment.

ANS: B OBJ: 4-6 DIF: Easy

- 38. The trend in job order costing is to
 - a. eliminate the data entry function for the accounting system.
 - b. automate the data collection and data entry functions.
 - c. use accounting software to change the focal point of the job order system.
 - d. create an Intranet to share information between competitors.

ANS: B OBJ: 4-5 DIF: Easy

	a. complicated tob. manufacturingc. real-time acced. expensive to in	g, but not a ssible.			
	ANS: C	DIF:	Easy	OBJ:	4-5
40.	b. will keep actu	e use of p al costs of for any co	redetermined jobs from flu	overhead octuating	rder costing I rates in a normal costing system. due to changes in component costs. to customer specification.
	ANS: A	DIF:	Easy	OBJ:	4-6
41.	After the completi the production pro a. effectiveness b. complexity c. homogeneity d. efficiency	_	luction, stand	ard and a	ctual costs are compared to determine the of
	ANS: D	DIF:	Easy	OBJ:	4-1
42.	A company product material? a. furniture b. NFL-logo jack c. picture frames d. none of the ab	cets	h of the follow	wing wou	ld be most likely to use a price standard for
	ANS: B	DIF:	Moderate	OBJ:	4-1
43.	A company production a. mattresses b. picture frames c. floral arranger d. stained-glass v	nents	h of the follow	wing wou	ld be most likely to use a time standard for labor?
	ANS: A	DIF:	Moderate	OBJ:	4-1
44.	A service organiza a. machine hours b. standard mate c. direct labor. d. number of cor	s. rial cost.	d be most like	ely to use	a predetermined overhead rate based on
	ANS: C	DIF:	Easy	OBJ:	4-7

39. As data input functions are automated, Intranet data becomes more

45.	 Knowing specific job costs enables managers to effectively perform which of the following tasks? a. estimate costs of future jobs. b. establish realistic job selling prices. c. evaluate job performance. d. all answers are correct. 									
	AN	NS: I)	D	IF:	Easy		OBJ:	4-1	
46.	Αj	job or	der cost	ing syste	em i	s likely to	provi	de bett	er	
	(1) (2) (3)	cc	ontrol ov	er inven	tory					duction work.
		(1)		(2)		(3)				
	a.	yes		no		no				
	b.	no		yes		yes				
	c.	no		no		no				
		yes		yes		yes				
		NS: I		_ Di	IF:	Difficult		OBJ:	4-1	
	b. c. d.	the s may emp	same qu be main	antities on tained u that larg	of m using	aterial and g either ac	l labo tual o	r. r prede	etermi	ined overhead rates. its even though they also provide the
	AN	NS: C	C	D	IF:	Difficult		OBJ:	4-6	
48.		erred spoi scra abno	nat is rej to as a led unit. p unit. ormal ur	nit.	a qı	ality cont	rol in	spectio	n poir	nt, but that can be reworked and sold, is
	AN	NS: I)	D	IF:	Easy		OBJ:	4-8	
49.	Th	e cos	t of abno	ormal los	sses	(net of dis	posal	costs)	shoul	ld be written off as
	Pro	oduct	cost	Period c	<u>cost</u>					
	a.	yes		no						
	b.	yes		yes						
	c.	no		yes						
	d.	no		no						
	AN	NS: C	C	D	IF:	Easy		OBJ:	4-8	

- 50. In a job order costing system, the net cost of normal spoilage is equal to
 - a. estimated disposal value plus the cost of spoiled work.
 - b. the cost of spoiled work minus estimated spoilage cost.
 - c. the units of spoiled work times the predetermined overhead rate.
 - d. the cost of spoiled work minus the estimated disposal value.

ANS: D DIF: Moderate OBJ: 4-8

51. If abnormal spoilage occurs in a job order costing system, has a material dollar value, and is related to a specific job, the recovery value of the spoiled goods should be

debited to credited to

 $a.\$ a scrap inventory account $\$ the specific job in process

b. the specific job in process overhead

c. a loss account the specific job in process

d. factory overhead sales

ANS: A DIF: Moderate OBJ: 4-8

- 52. In a job order costing system, the net cost of normal spoilage is equal to
 - a. estimated disposal value plus the cost of spoiled work.
 - b. the cost of spoiled work minus estimated spoilage cost.
 - c. the units of spoiled work times the predetermined overhead rate.
 - d. the cost of spoiled work minus the estimated disposal value.

ANS: D DIF: Moderate OBJ: 4-8

- 53. Shrinkage should be treated as
 - a. defective units.
 - b. spoiled units.
 - c. miscellaneous expense.
 - d. a reduction of overhead.

ANS: B DIF: Easy OBJ: 4-8

- 54. Spoiled units are
 - a. units that cannot be economically reworked to bring them up to standard.
 - b. units that can be economically reworked to bring them up to standard.
 - c. the same as defective units.
 - d. considered abnormal losses.

ANS: A DIF: Easy OBJ: 4-8

- 55. Abnormal spoilage is
 - a. spoilage that is forecasted or planned.
 - b. spoilage that is in excess of planned.
 - c. accounted for as a product cost.
 - d. debited to Cost of Goods Sold.

ANS: B DIF: Easy OBJ: 4-8

- 56. Normal spoilage is defined as unacceptable production that
 - a. arises because of a special job or process.
 - b. occurs in on-going operations.
 - c. is caused specifically by human error.
 - d. is in excess of that which is expected.

ANS: B

DIF: Easy

OBJ: 4-8

57. Which of the following would fall within the range of tolerance for a production cycle?

Abnormal loss	Normal loss	
a. yes	yes	
b. yes	no	
c. no	no	
d. no	yes	
ANS: D	DIF: Easy	OBJ: 4-8

- 58. The net cost of normal spoilage in a job order costing system in which spoilage is common to all jobs should be
 - a. assigned directly to the jobs that caused the spoilage.
 - b. charged to manufacturing overhead during the period of the spoilage.
 - c. charged to a loss account during the period of the spoilage.
 - d. allocated only to jobs that are completed during the period.

ANS: B DIF: Moderate OBJ: 4-8

59. Cajun Company. uses a job order costing system. During April 20X6, the following costs appeared in the Work in Process Inventory account:

Beginning balance	\$ 24,000
Direct material used	70,000
Direct labor incurred	60,000
Applied overhead	48,000
Cost of goods manufactured	185,000

Cajun Company applies overhead on the basis of direct labor cost. There was only one job left in Work in Process at the end of April which contained \$5,600 of overhead. What amount of direct material was included in this job?

- a. \$4,400
- b. \$4,480
- c. \$6,920
- d. \$8,000

ANS: A

Total Costs Incurred		202,000
Less: Cost of Goods Manufactured		(185,000)
Costs remaining in WIP		17,000
Overhead	5,600	
Direct Labor (5,600/.80)	7,000	(12,600)
Direct Materials	-	4,400

60. Quest Co. is a print shop that produces jobs to customer specifications. During January 20X6, Job #3051 was worked on and the following information is available:

Direct material used	\$2,500
Direct labor hours worked	15
Machine time used	6
Direct labor rate per hour	\$7
Overhead application rate per hour of machine time	\$18

What was the total cost of Job #3051 for January?

- a. \$2,713
- b. \$2,770
- c. \$2,812
- d. \$3,052

ANS: A

Direct Materials	\$ 2,500
Direct Labor (15 hours * \$7/hour)	105
Factory Overhead (6 hrs machine time *	
* \$18/mach hr)	108
	\$ 2,713

DIF: Easy OBJ: 4-4

Alpha Company

Alpha Co. uses a job order costing system. At the beginning of January, the company had two jobs in process with the following costs:

	<u>Direct Material</u>	<u>Direct Labor</u>	<u>Overhead</u>
Job #456	\$3,400	\$510	\$255
Job #461	1,100	289	3

Alpha pays its workers \$8.50 per hour and applies overhead on a direct labor hour basis.

- 61. Refer to Alpha Company. What is the overhead application rate per direct labor hour?
 - a. \$ 0.50
 - b. \$ 2.00
 - c. \$ 4.25
 - d. \$30.00

ANS: C

Direct Labor Hours: \$510/\$8.50	60 hrs	
Overhead Application Rate:		
\$255 / 60 hrs	\$ 4.29	5

- 62. Refer to Alpha Company. How much overhead was included in the cost of Job #461 at the beginning of January?
 - a. \$ 144.50
 - b. \$ 153.00
 - c. \$2,200.00
 - d. \$2,456.50

ANS: A

Direct Labor Hours: \$289/\$8.50	34 hrs	
Overhead Application Rate:		
\$255 / 60 hrs	\$	4.25
34 hrs * \$4.25/hr	\$	144.50

DIF: Easy OBJ: 4-4

- 63. Refer to Alpha Company. During January, Alpha's employees worked on Job #649. At the end of the month, \$714 of overhead had been applied to this job. Total Work in Process at the end of the month was \$6,800 and all other jobs had a total cost of \$3,981. What amount of direct material is included in Job #649?
 - a. \$ 677.00
 - b. \$1,391.00
 - c. \$2,142.00
 - d. \$4,658.00

ANS: A

Direct MaterialsJob 649		
Total Work in Process		\$ 6,800
Other Work in Process		(3,981)
Costs remaining in WIP	_	2,819
Overhead	714	
Direct Labor (OH x 2) \$714 * 2	1,428	(2,142)
Direct Materials		\$ 677

DIF: Difficult OBJ: 4-4

64. Brown Corporation manufactures products on a job order basis. The job cost sheet for Job #656 shows the following for March:

Direct material	\$5,000
Direct labor (100 hours @ \$7.25)	\$725
Machine hours incurred	40
Predetermined overhead rate per machine hour	\$26

At the end of March, what total cost appears on the job cost sheet for Job #656?

- a. \$5,725
- b. \$5,765
- c. \$6,765
- d. \$8,325

ANS: C

Direct Materials	\$ 5,000
Direct Labor (15 hours * \$7/hour)	725
Factory Overhead (26 hrs machine time *	
* \$40/mach hr)	1,040
	\$ 6,765

DIF: Easy OBJ: 4-4

65. Products at Redd Manufacturing are sent through two production departments: Fabricating and Finishing. Overhead is applied to products in the Fabricating Department based on 150 percent of direct labor cost and \$18 per machine hour in Finishing. The following information is available about Job #297:

	Fabricating	Finishing
Direct material	\$1,590	\$580
Direct labor cost	?	48
Direct labor hours	22	6
Machine hours	5	15
Overhead applied	429	?

What is the total cost of Job #297?

- a. \$2,647
- b. \$3,005
- c. \$3,093
- d. \$3,203

ANS: D

Direct Labor Fabricating \$429/1.50 = \$286					
Applied Overhead Finishing 15 hrs * \$18 =					
\$270					
	Fabr	icating	Finis	shing	
Direct material	\$	1,590	\$	580	
Direct labor cost		286		48	
Overhead applied		429		270	
Total Costs		2,305		898	\$ 3,203

- 66. Virginia Company applies overhead to jobs at the rate of 40 percent of direct labor cost. Direct material of \$1,250 and direct labor of \$1,400 were expended on Job #145 during June. On May 31, the balance of Job #145 was \$2,800. The balance on June 30 is:
 - a. \$3,210.
 - b. \$4,760.
 - c. \$5,450.
 - d. \$6,010.

ANS: D

Beginning WIP	\$ 2,800
Direct Materials	1,250
Direct Labor	1,400
Factory Overhead (\$1400 * 40%)	560
Ending WIP	\$ 6,010

DIF: Easy OBJ: 4-4

Jackson Company.

Jackson Company uses a job order costing system and the following information is available from its records. The company has three jobs in process: #6, #9, and #13.

Raw material used	\$120,000
Direct labor per hour	\$8.50
Overhead applied based on direct labor cost	120%

Direct material was requisitioned as follows for each job respectively: 30 percent, 25 percent, and 25 percent; the balance of the requisitions was considered indirect. Direct labor hours per job are 2,500; 3,100; and 4,200; respectively. Indirect labor is \$33,000. Other actual overhead costs totaled \$36,000.

- 67. Refer to Jackson Company. What is the prime cost of Job #6?
 - a. \$42,250
 - b. \$57,250
 - c. \$73,250
 - d. \$82,750

ANS: B

Direct Materials (120,000 * 30%) Direct Labor (2500 * \$8.50)	\$ 36,000 21,250
Total Prime Costs	\$ 57,250

68. Refer to Jackson Company. What is the total amount of overhead applied to Job #9?

- a. \$18,250
- b. \$26,350
- c. \$30,000
- d. \$31,620

ANS: D

Direct Labor Hours	Direct Labor Rate	OH Application Rate	Total
3100	\$8.50	120%	\$31,620

DIF: Moderate OBJ: 4-4

69. Refer to Jackson Company. What is the total amount of actual overhead?

- a. \$36,000
- b. \$69,000
- c. \$93,000
- d. \$99,960

ANS: C

Indirect Materials (\$120,000 * 20%)	\$ 24,000
Indirect Labor	33,000
Other Overhead Costs	36,000
Total Prime Costs	\$ 93,000

DIF: Moderate OBJ: 4-4

70. Refer to Jackson Company. How much overhead is applied to Work in Process?

- a. \$ 69,000
- b. \$ 99,960
- c. \$132,960
- d. \$144,000

ANS: B

Direct Labor Hours	6	2500	
	9	3100	
	13	<u>4200</u>	9,800
Direct Labor Rate			\$ 8.50
Overhead Application Rate			120%
Total Overhead Applied		-	\$ 99,960

- 71. Refer to Jackson Company. If Job #13 is completed and transferred, what is the balance in Work in Process Inventory at the end of the period if overhead is applied at the end of the period?
 - a. \$ 96,700

 - b. \$ 99,020 c. \$139,540
 - d. \$170,720

ANS: D

Step 1: Determine Total Cost of Job 13		
DM: \$120,000 * .25	\$ 30,000	
DL: 4,200 * 8.50	35,700	
FOH: 35,700 * 120%	42,840	108,540
Step 2: Compute Total Cost of Job 6		
DM: \$120,000 * .30	\$ 36,000	
DL: 2,500 * 8.50	21,250	
FOH: 21,250 * 120%	25,500	82,750
Step 2: Compute Total Cost of Job 9		
DM: \$120,000 * .25	\$ 30,000	
DL: 3,100 * 8.50	26,350	
FOH: 26,350 * 120%	31,620	
		87,970
Total Costs of Jobs 6 and 9		170,720

DIF: Difficult OBJ: 4-4

- 72. Refer to Jackson Company. Assume the balance in Work in Process Inventory was \$18,500 on June 1 and \$25,297 on June 30. The balance on June 30 represents one job that contains direct material of \$11,250. How many direct labor hours have been worked on this job (rounded to the nearest hour)?
 - a. 751
 - b. 1,324
 - c. 1,653
 - d. 2,976

ANS: A

Step 1: Determine DL and FOH

WIP at June 30:

Less DM in WIP

\$ 25,297 11,250

14,047

Step 2: Separate DL and FOH

Let x = DL; 1.2x = FOH

x + 1.2x = 14,047

2.2x = 14,047

x = \$6,385

Step 3: Compute DL Hours

 $$6,385 \div 8.50$

751 hours

DIF: Moderate

OBJ: 4-4

Beta Company

The following information pertains to Beta Company for September 20X4.

	<u>Direct Material</u>	Direct Labor	<u>Overhead</u>
Job #323	\$3 , 200	\$4,500	?
Job #325	?	5,000	?
Job #401	5 , 670	?	\$5 , 550

Beta Company applies overhead for Job #323 at 140 percent of direct labor cost and at 150 percent of direct labor cost for Jobs #325 and #401. The total cost of Jobs #323 and #325 is identical.

- 73. Refer to Beta Co. What amount of overhead is applied to Job #323?
 - a. \$4,800
 - b. \$5,550
 - c. \$6,300
 - d. \$7,500

ANS: C

Direct Labor	Application Rate	Total
		Overhead
\$4,500	140%	\$6,300

DIF: Easy

OBJ: 4-4

74. Refer to Beta Co. What amount of overhead is applied to Job #325?

- a. \$8,325
- b. \$7,500
- c. \$7,000
- d. \$5,000

ANS: B

Direct Labor	Application Rate	Total
		Overhead
\$5,000	150%	\$7,500

DIF: Easy OBJ: 4-4

- 75. Refer to Beta Co. What is the amount of direct materials for Job #325?
 - a. \$1,950
 - b. \$1,500
 - c. \$3,700
 - d. \$7,500

ANS: B

Step 1:	Determine OH for Jobs 323 and 325			
		323	\$ 6,300	
		325	7,500	
Step 2:	Compute Total Cost of Job 323	DM	\$ 3,200	
		DL	4,500	
		FOH	 6,300	 14,000
Step 3:	Compute Direct Materials for Job 325			
(14,000	- (5,000 + 7,500)			\$ 1,500

- 76. Refer to Beta Co. Assume that Jobs #323 and #401 are incomplete at the end of September. What is the balance in Work in Process Inventory at that time?
 - a. \$18,920
 - b. \$22,620
 - c. \$28,920
 - d. \$30,120

ANS: C

Step 1: Determine DL for Job 401 \$5,550 ÷ 150%			3,700
Step 2: Compute Total Cost of Job 401	DM	\$ 5,670	
	DL	3,700	
	FOH	 5,550	14,920
Step 2: Compute Total Cost of Job 323	DM	\$ 3,200	
	DL	4,500	
	FOH	 6,300	14,000
Total Costs of Jobs 323 and 401			28,920

DIF: Moderate OBJ: 4-4

Camden Company

Camden Company has two departments (Processing and Packaging) and uses a job order costing system. Baker applies overhead in Processing based on machine hours and on direct labor cost in Packaging. The following information is available for July:

	<u>Processing</u>	Packaging
Machine hours	2,500	1,000
Direct labor cost	\$44 , 500	\$23,000
Applied overhead	\$55,000	\$51 , 750

- 77. Refer to Camden Company. What is the overhead application rate per machine hour for Processing?
 - a. \$ 0.81
 - b. \$ 1.24
 - c. \$17.80
 - d. \$22.00

ANS: D

Total Applied	Machine Hours	Rate per
Overhead		Hour
\$55,000	2,500	\$22.00

78. Refer to Camden Co. What is the overhead application rate for Packaging?

- a. \$ 0.44
- b. \$ 2.25
- c. \$23.00
- d. \$51.75

ANS: B

Total Applied Overhead	Total Direct Labor	Rate per Hour
\$51,750	\$23,000	\$2.25

DIF: Easy

OBJ: 4-4

Tiger Company

Tiger Company has a job order costing system and an overhead application rate of 120 percent of direct labor cost. Job #63 is charged with direct material of \$12,000 and overhead of \$7,200. Job #64 has direct material of \$2,000 and direct labor of \$9,000.

79. Refer to Tiger Co. What amount of direct labor cost has been charged to Job #63?

- a. \$ 6,000
- b. \$ 7,200
- c. \$ 8,640
- d. \$14,400

ANS: A

Total Applied Overhead	Overhead Application	Direct Labor Charged
	Rate	
\$7,200	120%	\$6,000

DIF: Easy OBJ: 4-4

- 80. Refer to Tiger Company. What is the total cost of Job #64?
 - a. \$10,800
 - b. \$11,000
 - c. \$21,800
 - d. \$30,200

ANS: C

Direct Materials	2,000
Direct Labor	9,000
Factory Overhead (\$9,000 *	10,800
120%)	
Total Cost of Job 64	21,800

Bradley Company

Bradley Company uses a job order costing system. Assume that Job #504 is the only one in process. The following information is available:

Budgeted direct labor hours65,000Budgeted machine hours9,000Budgeted overhead\$350,000Direct material\$110,500Direct labor cost\$70,000

- 81. Refer to Bradley Company. What is the overhead application rate if Bradley uses a predetermined overhead application rate based on direct labor hours (rounded to the nearest whole dollar)?
 - a. \$ 0.20
 - b. \$ 5.00
 - c. \$ 5.38
 - d. \$38.89

ANS: C

Budgeted	Budgeted Direct	Overhead
Overhead	Labor Hours	Application Rate
\$350,000	65,000	\$5.38

DIF: Easy OBJ: 4-4

- 82. Refer to Bradley Company. What is the total cost of Job #504 assuming that overhead is applied at the rate of 135% of direct labor cost (rounded to the nearest whole dollar)?
 - a. \$192,650
 - b. \$268,250
 - c. \$275,000
 - d. \$329,675

ANS: C

11.00	
Direct Materials	110,500
Direct Labor	70,000
Factory Overhead (\$70,000 * 135%)	94,500
Total Cost of Job #504	275,000

83. At the end of the last fiscal year, Roberts Company had the following account balances:

Overapplied overhead	\$ 6,000
Cost of Goods Sold	\$980,000
Work in Process Inventory	\$ 38,000
Finished Goods Inventory	\$ 82,000

If the most common treatment of assigning overapplied overhead were used, the final balance in Cost of Goods Sold is:

- a. \$974,000.
- b. \$974,660.
- c. \$985,340.
- d. \$986,000.

ANS: A

Unadjusted COGS	less: Overapplied OH	Adjusted COGS
\$980,000	\$6,000	\$974,000

DIF: Easy OBJ: 4-4

84. Strong Products has no Work in Process or Finished Goods inventories at the close of business on December 31, 20X4. The balances of Strong Products' accounts as of December 31, 20X4, are as follows:

Cost of goods soldunadjusted	\$2,040,000
Selling & administrative expenses	900,000
Sales	3,600,000
Manufacturing overhead control	700,000
Manufacturing overhead applied	648,000

Pretax income for 20X4 is:

- a. \$608,000.
- b. \$660,000.
- c. \$712,000.
- d. undeterminable from the information given.

ANS: A

Sales		\$	3,600,000
Cost of Goods Sold	2,040,000		
Factory Overhead Underapplied (700,000-648,000)	<u>52,000</u>	(2	2,092,000)
Selling, General and Administrative Expenses			(900,000)
Pretax Income		\$	608,000

Wilson Manufacturing Company

Wilson Manufacturing Company produces beach chairs. Chair frames are all the same size, but can be made from plastic, wood, or aluminum. Regardless of frame choice, the same sailcloth is used for the seat on all chairs. Wilson has set a standard for sailcloth of \$9.90 per square yard and each chair requires 1 square yard of material. Wilson produced 500 plastic chairs, 100 wooden chairs, and 250 aluminum chairs during June. The total cost for 1,000 square yards of sailcloth during the month was \$10,000. At the end of the month, 50 square yards of sailcloth remained in inventory.

- 85. Refer to Wilson Manufacturing Company. The unfavorable material price variance for sailcloth purchases for the month was
 - a. \$ 100.
 - b. \$ 495.
 - c. \$1,090.
 - d. \$1,585.

ANS: A

A 40.000 4.000	
\$10,000 ÷ 1,000	\$10.00 per yard
\$(9.90 - 10.00) * 1,000 yards	\$100

DIF: Moderate OBJ: 4-6

- 86. Refer to Wilson Manufacturing Company. Assuming that there was no sailcloth in inventory at the beginning of June, the unfavorable material quantity variance for the month was
 - a. \$ 495.
 - b. \$ 500.
 - c. \$ 990.
 - d. \$1,000.

ANS: C

850 chairs * 1 yard per chair	850 yards	
Actual usage (1,000 - 50)	950 yards	
Unfavorable usage variance	<u>100 yards</u>	
_	9.90/yard	
		\$ 990

DIF: Moderate OBJ: 4-6

87. Refer to Wilson Manufacturing Company. Wilson could set a standard cost for which of the following?

	Frame cost	Predetermi OH rate		r	
a.	yes	yes	yes		
b.	no	no	no		
c.	yes	no	no		
d.	no	yes	yes		
AN	IS: D	DIF:	Difficult	OBJ:	4-6

SHORT ANSWER

1. Compare and contrast job order and process costing systems.

ANS:

Job order costing is characterized by the production of small quantities of heterogeneous distinct or unique items. Items are produced according to customer specifications and, at a minimum, direct material and direct labor costs can be traced to specific jobs. Process costing is characterized by the production of large quantities of homogeneous (alike or similar in nature) items. Specific items cannot be identified with specific costs during the production process.

DIF: Moderate OBJ: 4-1

2. Discuss actual costing, normal costing, and standard costing.

ANS:

Actual costing, normal costing, or standard costing may be used in either a job order costing or process costing system. Actual costing assigns the actual cost of all direct material, direct labor, and overhead to the units produced. Normal costing uses actual direct material and direct labor cost and a predetermined overhead application rate to cost products. Standard costing establishes "norms" for direct material and direct labor quantities and/or costs and uses a predetermined (standard) overhead rate for the application of overhead to determine product cost.

DIF: Moderate OBJ: 4-1

3. What is a "job" as defined in a job order costing system?

ANS:

A job is a single unit or a group of like items that is produced to customer specifications. A job is separately identifiable from other jobs. Each job is treated as a cost object, and costs (typically actual direct material, actual direct labor, and overhead applied using a predetermined rate) are attached to each job as it flows through the production process.

DIF: Moderate OBJ: 4-2

4. What information should be contained in a subsidiary ledger for Work in Process Inventory in a job order costing system?

ANS:

The Work in Process Inventory subsidiary ledger should contain information on all incomplete jobs. This information will include the amount of direct material and direct labor costs in production, as well as the amount of overhead applied to each job. The subsidiary ledger for Work in Process Inventory is composed of all job cost sheets for uncompleted jobs and substantiates the balance in the general ledger Work in Process Inventory control account.

5. Discuss the basic forms used in a job order costing system.

ANS:

The forms used in a job order costing system include (1) a job order cost sheet which records all the financial and significant production data (actual or standard, and possibly budgeted) relating to a particular job; (2) a material requisition form which records the costs and quantities of material that has been requisitioned for a particular job; and (3) an employee time sheet which records the jobs worked on by an employee and the amount of time spent on each job.

DIF: Moderate OBJ: 4-3

6. Can standard costing be used in job order costing? If so, what conditions must exist? If not, explain why.

ANS:

Yes. Firms that use job order costing can also base their costs on standards. Each job must be fairly similar to each other job. Standards may be used for the prices of material and labor if the jobs use basically the same kind of material and labor. If jobs are homogeneous enough, standards can also be used for materials and labor quantities. Some companies may choose to only use price standards, others only quantity standards, and others may use both price and quantity standards.

DIF: Moderate OBJ: 4-6

7. Discuss the accounting treatment of spoilage in a job order costing system.

ANS:

If the spoilage is common to all jobs, is normal, and can be estimated, the net cost is applied to production using a predetermined overhead rate that was set by including the spoilage estimate in estimated overhead. If spoilage pertains to a particular job and is normal, the disposal value of the spoiled goods should be removed from that particular job. If the spoilage is abnormal, the net cost should be charged to a loss account and credited to the particular Work in Process job that created the spoilage.

PROBLEM

- 1. Prepare the necessary journal entries from the following information for Anderson Company, which uses a perpetual inventory system.
 - a. Purchased raw material on account, \$56,700.
 - b. Requisitioned raw material for production as follows: direct material-80 percent of purchases; indirect material-15 percent of purchases.
 - c. Direct labor wages of \$33,100 are accrued as are indirect labor wages of \$12,500.
 - d. Overhead incurred and paid for is \$66,900.
 - e. Overhead is applied to production based on 110 percent of direct labor cost.
 - f. Goods costing \$97,600 were completed during the period.
 - g. Goods costing \$51,320 were sold on account for \$77,600.

ANS:

a.	Raw Material Inventory	56,700	
	Accounts Payable		56 , 700
b.	Work in Process Inventory	45,360	
	Manufacturing Overhead	8,505	
	Raw Material Inventory		53 , 865
c.	Work in Process Inventory	33,100	
	Manufacturing Overhead	12,500	
	Wages Payable		45,600
d.	Manufacturing Overhead	66,900	
	Cash		66 , 900
e.	Work in Process Inventory	36,410	
	Manufacturing Overhead		36,410
f.	Finished Goods Inventory	97 , 600	
	Work in Process Inventory		97 , 600
g.	Cost of Goods Sold	51,320	
	Finished Goods Inventory		51,320
	Accounts Receivable	77 , 600	
	Sales		77 , 600

DIF: Easy OBJ: 4-4

2. Richards Company employs a job order costing system. Only three jobs-Job #205, Job #206, and Job #207-were worked on during January and February. Job #205 was completed February 10; the other two jobs were still in production on February 28, the end of the company's operating year. Job cost sheets on the three jobs follow:

	Job Cost Sheet			
	Job #205	Job #206	Job #207	
January costs incurred:				
Direct material	\$16,500	\$ 9,300	\$ -	
Direct labor	13,000	7,000	_	
Manufacturing overhead	20,800	11,200	_	
February costs incurred:				
Direct materials	_	8,200	21,300	
Direct labor	4,000	6,000	10,000	
Manufacturing overhead	?	3	?	

The following additional information is available:

- a. Manufacturing overhead is assigned to jobs on the basis of direct labor cost.
- b. Balances in the inventory accounts at January 31 were as follows:

Raw Material	\$40,000
Work in Process	?
Finished Goods	85,000

Required:

- a. Prepare T-accounts for Raw Material, Work in Process Inventory, Finished Goods Inventory, and Manufacturing Overhead Control. Enter the January 31 inventory balances given previously; in the case of Work in Process Inventory, compute the January 31 balance and enter it into the Work in Process Inventory T-account.
- b. Prepare journal entries for **February** as follows:
 - 1. Prepare an entry to record the issue of materials into production and post the entry to appropriate T-accounts. (In the case of direct material, it is not necessary to make a separate entry for each job.) Indirect materials used during February totaled \$4,000.
 - 2. Prepare an entry to record the incurrence of labor cost and post the entry to appropriate T-accounts. (In the case of direct labor, it is not necessary to make a separate entry for each job.) Indirect labor cost totaled \$8,000 for February.
 - 3. Prepare an entry to record the incurrence of \$19,000 in various actual manufacturing overhead costs for February (credit Accounts Payable).

- c. What apparent predetermined overhead rate does the company use to assign overhead cost to jobs? Using this rate, prepare a journal entry to record the application of overhead cost to jobs for February (it is not necessary to make a separate entry for each job). Post this entry to appropriate T-accounts.
- d. As stated earlier, Job #205 was completed during February. Prepare a journal entry to show the transfer of this job off of the production line and into the finished good warehouse. Post the entry to appropriate T-accounts.
- e. Determine the balance at February 28 in the Work in Process inventory account. How much of this balance consists of the cost of Job #206? Job #207?

ANS:

a.

a.							
			erials	V	Nork in F		
BB	40,0	nvent	tory	BB	Invent 77,800	ory	_
			31,500		29,500 20,000 32,000	60,700	_
					98,600		_
			Goods	0	Manufact		
		nvent	tory	0	verhead	Control	_
ВВ	85 , 0	,700			4,000 8,000 19,000	32,000	
b.	 2. 	Manu Cont Ra Worl Manu Cont	w Materials Invent in Process Inventuracturing Overhea	tory ory	20	9,500 1,000 0,000 8,000	33,500 28,000
	3.	Cont	ufacturing Overhea rol ecounts Payable	ad	19	9,000	19,000
c.	1609	%/DL	COST × \$20,000 =	= \$32	,000		
			Process Inventory acturing Overhead (Conti		2,000	32,000

d.	Finished Goods Inventory	60,700	
	Work in Process Inventory		60,700

e.	WIP INV	98,600
	Job 206 = \$51,300	Job 207 = \$47,300

	JOB #205	JOB #206	JOB #207
Beg WIP	\$50,300	\$27,500	_
Direct Mat	0	8,200	\$21,300
Direct Labor	4,000	6,000	10,000
Factory Overhead	6,400	9,600	16,000
	\$60,700	\$51 , 300	\$47,300

3. The Pittman Company manufactures special purpose machines to order. On January 1, there were two jobs in process, #705 and #706. The following costs were applied to these jobs in the prior year:

	<u>Job No.</u>		
	<u>705</u>	<u>706</u>	
Direct material	\$ 5,000	\$ 8,000	
Direct labor	4,000	3,000	
Overhead	4,400	3,300	
Total	<u>\$13,400</u>	\$14,300	

During January, the following transactions took place:

- * Raw material costing \$40,000 was purchased on account.
- * Jobs #707, #708, and #709 were started and the following costs were applied to them:

	JOB			
	<u>707</u>	<u>708</u>	<u>709</u>	
Direct materials	\$3,000	\$10,000	\$7 , 000	
Direct labor	5,000	6,000	4,000	

- * Job #705 and Job #706 were completed after incurring additional direct labor costs of \$2,000 and \$4,000, respectively
- * Wages paid to production employees during January totaled \$25,000.
- * Depreciation for the month of January totaled \$10,000.
- * Utilities bills in the amount of \$10,000 were paid for operations during December.
- * Utilities bills totaling \$12,000 were received for January operations.
- * Supplies costing \$2,000 were used.
- * Miscellaneous overhead expenses totaled \$24,000 for January.

Actual overhead is applied to individual jobs at the end of each month using a rate based on actual direct labor costs.

Required:

- a. Determine the January overhead rate.
- b. Determine the cost of each job.
- c. Prepare a statement of cost of goods manufactured.

ANS:

a. MOH
$$\$4,000 + \$10,000 + \$12,000 + \$24,000 =$$
 $\frac{\$52,000}{\$21,000} = \$2.4762/d1 \cos t$

b	JOB	JOB	JOB	JOB	JOB		
•	<u>#705</u>	<u>#706</u>	<u>#707</u>	<u>#708</u>	<u>#709</u>		
DM	_	-	\$ 3,000	\$10,000	\$ 1,000	=	\$ 20,000
DL	\$ 2,000	\$ 4,000	5,000	6,000	4,000	=	21,000
MOH	4,952	9,905	12,381	14,857	9,905	=	52,000
Beg WIP	13,400	14,300				=	 27,700
	\$20,352	\$28,205	\$20,381	\$30 , 857	\$20,905		\$ 120,700

c.	Beg WIP	\$27 , 700
	+ DM	20,000
	+ DL	21,000
	+ MOH	52,000
	- End WIP	72,143
		\$48 , 557

- 4. The Western Corporation, began operations on October 1. It employs a job order costing system. Overhead is charged at a normal rate of \$2.50 per direct labor hour. The actual operations for the month of October are summarized as follows:
 - a. Purchases of raw material, 25,000 pieces @ \$1.20/piece.
 - b. Material and labor costs charged to production:

			Direct	Direct
Job No.	<u>Units</u>	<u>Material</u>	labor cost	<u>labor hours</u>
101	10,000	\$4,000	\$6,000	3 , 000
102	8,800	3,600	5,400	2,700
103	16,000	7,000	9,000	4,500
104	8,000	3 , 200	4,800	2,400
105	20,000	8,000	3,600	1,800

c. Actual overhead costs incurred:

Variable	\$18,500
Fixed	15,000

- d. Completed jobs: 101, 102, 103, and 104
- e. Sales-\$105,000. All units produced on Jobs 101, 102, and 103 were sold.

Required: Compute the following balances on October 31:

- a. Material inventory
- b. Work in process inventory
- c. Finished goods inventory
- d. Cost of goods sold
- e. Under- or overapplied overhead ANS:

a.
$$$30,000 - ($4,000 + $3,600 + $7,000 + $3,200 + $8,000) = $4,200$$

b. Job #105 $$8,000 + $3,600 + ($1,800 \times 2.50) = $16,100$

c. Job #104
$$$3,200 + $4,800 + ($2,400 \times 2.50) = $14,000$$

d. Job# 101
$$\$4,000 + \$6,000 + (\$3,000 \times 2.50) =$$
 $\$17,500$ 102 $\$3,600 + \$5,400 + (\$2,700 \times 2.50) =$ $15,750$ 103 $\$7,000 + \$9,000 + (\$4,500 \times 2.50) =$ $27,250$ $\$60,500$

e. Applied
$$14,400 \times \$2.50 = \$36,000$$

Actual $33,500$
Overapplied $\$2,500$

Steel Company.

Steel Company uses a job order costing system and develops its predetermined overhead rate based on machine hours. The company has two jobs in process at the end of the cycle, Jobs #177 and #179.

Budgeted overhead	\$100,300
Budgeted machine hours	85,000
Raw material	\$ 63,000
Labor cost	\$ 50,000

5. Refer to Steel Company. What amount of overhead is charged to Jobs #177 and #179? Machine hours are split between Jobs #177 and #179-65 percent and 35 percent, respectively. Actual machine hours equal budgeted machine hours.

ANS:

OH Applied = MH Cost \times POHR

Job #177: $85,000 \text{ MH} \times 65\% = 55,250 \times \$1.18 = \$65,195$ Job #179: $85,000 \text{ MH} \times 35\% = 29,750 \times \$1.18 = \$35,105$

DIF: Easy OBJ: 4-4

6. Refer to Steel Company. Fifty-four percent of raw material belongs to Job 17 and 38 percent belongs to Job 179, and the balance is considered indirect material. What amount of raw material used was allocated to overhead as indirect material?

ANS:

54% + 38% = 92%; this means that 8% is indirect or \$5,040 (.08 × \$63,000).

DIF: Easy OBJ: 4-4

7. Refer to Steel Co. Labor cost was split 25 percent and 70 percent, respectively, between Jobs #177 and #179 for direct labor. The remainder was indirect labor cost. What are the total costs of Jobs #177 and #179?

ANS:

	<u>Job #177</u>	Job #179
DM	\$ 34,020	\$23,940
DL	12,500	35,000
MOH	65,195	35,105
	\$111 , 715	<u>\$94,045</u>

8. Sanderson Company manufactures custom-built conveyor systems for factory and commercial operations. Erin Smith is the cost accountant for Sanderson and she is in the process of educating a new employee, Heather Fontenot about the job order costing system that Sanderson uses. (The system is based on normal costs; overhead is applied based on direct labor cost and rounded to the next whole dollar.) Lisa gathers the following job order cost records for July:

	Direct	Direct		Total
Job No.	Materials	<u>Labor</u>	Applied OH	Cost
667	\$ 5,901	\$1 , 730	\$ 1 , 990	\$ 9,621
669	18,312	1,810	2,082	22,204
670	406	500	575	1,481
671	51,405	9,500	10,925	71,830
672	9,615	550	633	10,798

To explain the missing job number, Erin informed Heather that Job #668 had been completed in June. She also told her that Job #667 was the only job in process at the beginning of July. At that time, the job had been assigned \$4,300 for direct material and \$900 for direct labor. At the end of July, Job #671 had not been completed; all others had. Erin asked Heather several questions to determine whether she understood the job order system.

Required: Help Heather answer the following questions:

- a. What is the predetermined overhead rate used by ABC Company?
- b. What was the total cost of beginning Work in Process inventory?
- c. What was total prime cost incurred for the month of July?
- d. What was cost of goods manufactured for July?

ANS:

a. Use any job started in July:

Rate =
$$\frac{\text{MOH}}{\text{DL COST}}$$
 JOB \$670 $\frac{\$575}{\$500}$ = 115%/DL Cost
b. DM \$4,300
DL 900
FOH $\frac{1,035}{\$6,235}$ (\$900 × 115%)

c. Prime Cost =DM + DL

DM = \$85,639 - 4,300 = \$81,339
DL = 14,090 - 900 =
$$\frac{13,190}{$94,529}$$

d.
$$COGM = $9,621 + 22,204 + 1,481 + 10,798 = $44,104$$

DIF: Easy OBJ: 4-4

- 9. Perry Company uses a job order costing system and has the following information for the first week of June:
 - 1. Direct labor and direct materials used:

Job No.	Direct Material	Direct Labor Hours
498	\$1 , 500	116
506	960	16
507	415	18
508	345	42
509	652	24
511	308	10
512	835	30
Total	\$5,015	256

- 2. The direct labor wage rate is \$4 per hour.
- 3. The overhead rate is \$5 per direct labor hour.
- 4. Actual overhead costs for the week, \$1,480.
- 5. Jobs completed: Nos. 498, 506, and 509.
- 6. The factory had no work in process at the beginning of the week.

Required:

- a. Prepare a summary that will show the total cost assigned to each job.
- b. Compute the amount of overhead over- or underapplied during the week.
- c. Calculate the cost of the work in process at the end of the week.

ANS:

a.	Job No.	<u>DM</u>	<u>DL</u>	<u>OH</u>	<u>Total</u>
	498	\$1,500	\$ 464	\$ 580	\$2,544
	506	960	64	80	1,104
	507	415	72	90	577
	508	345	168	210	723
	509	652	96	120	868
	511	308	40	50	398
	512	835	120	150	1,105
		<u>\$5,015</u>	<u>\$1,024</u>	<u>\$1,280</u>	<u>\$7,319</u>

b. Actual MOH \$1,480 Applied MOH Underapplied $\frac{1,280}{$200}$

c. JOB 507 \$ 577 508 723 511 398 512 1,105 Ending WIP \$2,803

DIF: Easy OBJ: 4-4

10. You are asked to bring the following incomplete accounts of Andrepont Printing, Inc. up to date through January 31,20X5. Consider the data that appear in the T-accounts as well as additional information given in items (a) through (i).

Andrepont's job order costing system has two direct cost categories (direct material and direct manufacturing labor) and one indirect cost pool (manufacturing overhead, which is allocated using direct manufacturing labor costs).

Wagaa Davahla Cantual

Materials Inventory Control	Wages Payable Control
12/31/20X4	1/31/20X5
Balance 15,000	Balance 3,000
Work in Process Inventory Control	Manufacturing Department Overhead Control January 20X5 Charges 57,000
	Manufacturing Overhead Control
Finished Goods Inventory Control 12/31/20X4 Balance 20,000	Cost of Goods Sold

Additional Information:

- a. Manufacturing department overhead is allocated using a budgeted rate set every December. Management forecasts next year's overhead and next year's direct manufacturing labor costs. The budget for 20X5 is \$400,000 of direct manufacturing labor and \$600,000 of manufacturing overhead.
- b. The only job unfinished on January 31, 20X5 is No. 419, on which direct manufacturing labor costs are \$2,000 (125 direct manufacturing labor hours) and direct material costs are \$8,000.
- c. Total material placed into production during January is \$90,000.
- d. Cost of goods completed during January is \$180,000.

Matariala Inventory Control

- e. Material inventory as of January 31, 20X5 is \$20,000.
- f. Finished goods inventory as of January 31, 20X5 is \$15,000.
- g. All plant workers earn the same wage rate. Direct manufacturing labor hours for January totals 2,500. Other labor and supervision totals \$10,000.
- h. The gross plant payroll on January paydays totals \$52,000. Ignore withholdings. All personnel are paid on a weekly basis.
- i. All "actual" manufacturing department overhead incurred during January has already been posted.

Required:

- a. Material purchased during January
- b. Cost of Goods Sold during January
- c. Direct Manufacturing Labor Costs incurred during January
- d. Manufacturing Overhead Allocated during January

- e. Balance, Wages Payable Control, December 31, 20X4
- f. Balance, Work in Process Inventory Control, January 31, 20X5
- g. Balance, Work in Process Inventory Control, December 31, 20X4
- h. Balance, Finished Goods Inventory Control, January 31, 20X5
- i. Manufacturing Overhead underapplied or overapplied for January

ANS:

- a. \$15,000 + Purchases \$20,000 = \$90,000. Purchases = \$95,000
- b. \$20,000 + \$180,000 \$15,000 = \$185,000
- c. $DL = \frac{$2,000}{125} = $16/HR \times 2,500 \text{ HRS} = $40,000$
- d. $\frac{$600,000}{$400,000} = 150\%$ DL $cost \times $40,000 = $60,000$
- e. BEGIN + \$50,000 \$52,000 = \$3,000 BEGIN = \$5,000
- f. $\$2,000 + (\$2,000 \times 150\%) + \$8,000 = \$13,000$
- g. BEGIN + \$90,000 + \$40,000 + \$60,000 \$180,000 = \$13,000 BEGIN = \$3,000
- h. \$20,000 + \$180,000 \$185,000 = END = \$15,000
- i. APPLIED \$60,000 ACTUAL 57,000 \$ 3,000 overapplied

11. Beauty Company manufactures picture frames of all sizes and shapes and uses a job order costing system. There is always some spoilage in each production run. The following costs relate to the current run:

Estimated overhead (exclusive of spoilage)	\$160 , 000
Spoilage (estimated)	\$ 25,000
Sales value of spoiled frames	\$ 11,500
Labor hours	100,000

The actual cost of a spoiled picture frame is \$7.00. During the year 170 frames are considered spoiled. Each spoiled frame can be sold for \$4. The spoilage is considered a part of all jobs.

- a. Labor hours are used to determine the predetermined overhead rate. What is the predetermined overhead rate per direct labor hour?
- b. Prepare the journal entry needed to record the spoilage.
- c. Prepare the journal entry if the spoilage relates only to Job #12 rather than being a part of all production runs.

ANS:

a.	\$160,000 + \$25,000 - \$11,500 = \$173,500 \$173,500/100,000 = \$1.735 per DLH		
b.	Disposal Value of Spoiled Work	680	
	Manufacturing Overhead	510	
	Work in Process Inventory		1,190
c.	Disposal Value of Spoiled Work	680	
	Work in Process Inventory-Job #12		680