(Analysis test bank)

Final:

Q1: List six Elements of Project Planning

Q2: Context DFD Designing Draw the context DFD for the below system.

The auction house has selling customers, who want to put up an item for sale, and buying customers, who buy an item at an auction. Selling customers ask the auction house to sell an item on their behalf. The auction house decides whether to accept the request and maintains a record for all accepted requests Buying customers register with the auction house and participate in auctions. Auctions are conducted by giving buying customers information about an item, then taking bids. The auction determines a buying customer for each item put up for sale. The sale is completed when the buying customer pays for the item. The auction house sends a portion of the sale income to the selling customer who put up the item for sale in the first place. Of course, the auction house keeps track of all auctions (which are conducted every few weeks) and all sales at each auction.

Q3: For all the parts to this problem, let the annual discount rate be 5

- a) Find the present value of the following cash flow: receive \$10 every year for 30 years with the first payment being 10 years from now
- b) Find the presont value of the following cash flow: receive \$10m now and the same amount a year from today and pay \$3m a year forever with the first payment being a year from today.
- c) Consider the following two cash flows.

For cash flow A. you receive \$10 every year for 5 years with the first payment being today

For cash flow B. you receive x dollars every year forever with the first payment being today.

What is the value of x in order for cash flow & to have the same present value as cash flow A?

Q4: ER Diagram Designing

Draw an Entity-Relationship diagram that is associated with the below public library system.

The public library holds information on:

- Books, videos and CDs available for borrowing:
- Every item (book, video, CD) has a unique collection #, a title, and an ISBN which is
 unique for every publication; every item may be in good order or damaged (see below)
 note that if there are 10 copies of a single book, they have distinct collection #s, but
 identical ISBN#s;
- Books can be in Arabic, or another language; in either case, the database stores the language the book is written in;
- Books have a publisher and one or more authors, CDs and videos have a unique producer. and one or more artists.

In addition, the database maintains data on library users and their borrowed material:

• Each user has a unique userID, address, phone#; users can be adults, children or seniors:

seniors can borrow material for longer periods, while children pay a nominal fine of ID

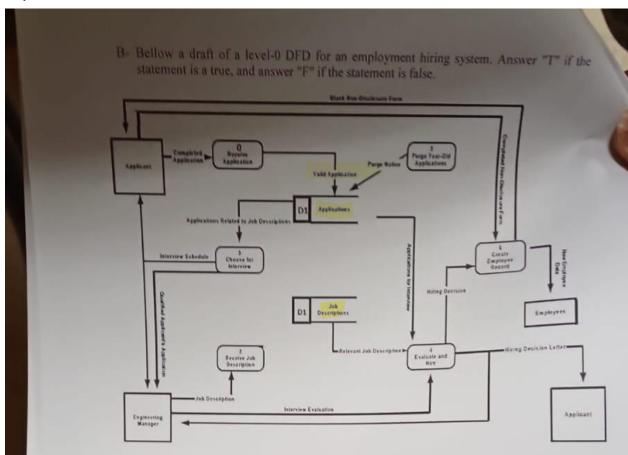
0.05/day for un-returned material:

- When a user selects an item to be borrowed, the library clerk updates the database, recording userID, collections, and date of borrowing:
- When a user returns an item, the library clerk updates the database, recording the date when the item was returned: if the item is overdue, the clerk also collects a fine calculated as DaysLate.

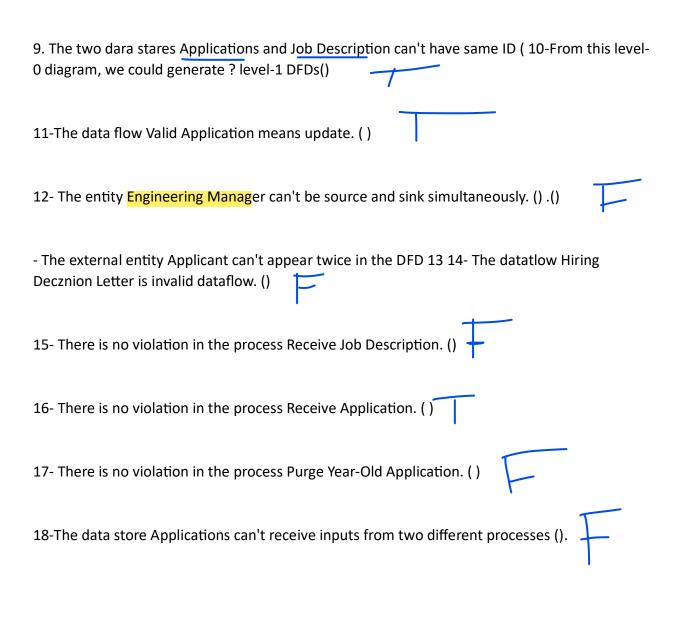
Q5:

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False respe	ctively.						6	7	8
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Condition Stubs	A	T	T	T	T	F	T	F	F
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Action Stubs	Action1	X	X						
	Action2			X	V	-	X		X
	Action3				X	X		X	
	Action4					Λ			

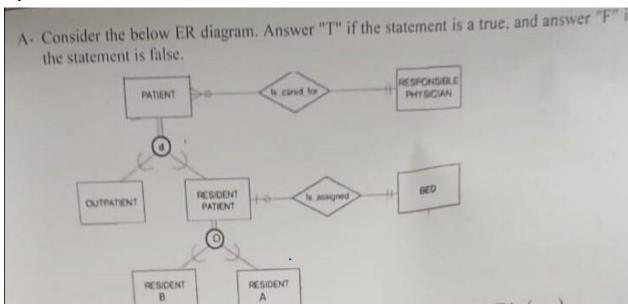
Q6:



- 7. There is no violation in the process Create Employer Record. ()
- 8. The data flow Interview Schechile is valid data flow



Q7:

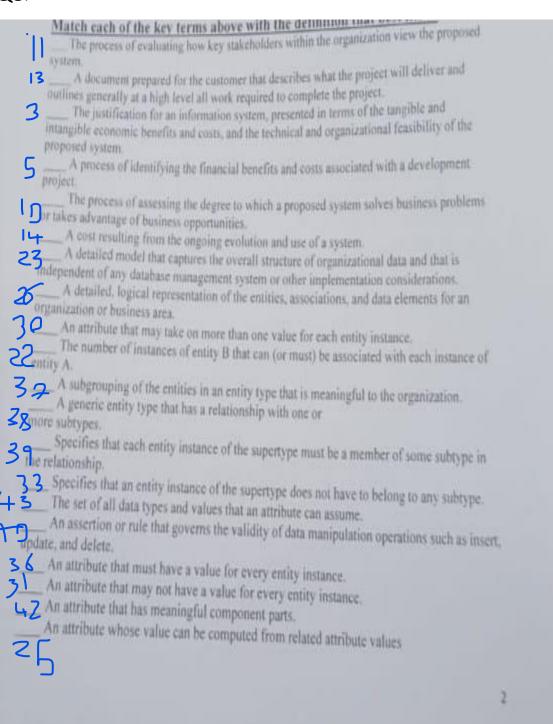


- 1- At any time a PATIENT cannot be an OUTPATIENT and RESIDENTA. ()
- 2. RESIDENTA is cared for only one RESPONSIBLE PHYSICIAN ()
- 3- A RESIDENT PATIENT can be both RESIDENTA and RESIDENT B ()
- 4. RESIDENTA and OUTPATIENT could be cared by the same RESPONSIBLE PHYSICIAN. ()
- 5- A BED could be served by many RESPONSIBLE PHYSICIANS. ()

6- A BED could be assigned to at most one PATIENT. ()



Q8:



Key Terms

- 1 Baseline Project Plan (BPP) 2 Break-even analysis 3 Business case 4 Discount rate
- 5 Economic feasibilities 6 Intangible benefit 7 Intangible cost 8 Legal and contractual feasibility 9 One-time cost 10 Operational feasibility 11 Political feasibility 12 Present value
- 13 Project Scope Statement (PSS) 14 Recurring cost 15 Schedule feasibility
- 16 Total cost of ownership (TCO) 17 Tangible benefit 18 Tangible cost 19 Technical feasibility
- 20 Time value of money (TVM) 21 Total cost of ownership (TCO) 22 Cardinality
- 23 Conceptual data model 24 Degree 25 Derived attribute
 - 26 Entity-relationship data model (E-R model) 27 Entity-relationship diagram (E-R diagram)
 - 28 Entity type 29 Identifier 30 Multivalued attribute 31 Optional attribute 32 Overlap rule
 - 33 Partial specialization rule 34 Relationship 35 Repeating group 36 Required attribute
- 37 Subtype 38 Supertype 39 Total specialization rule 40 Triggering operation(trigger) 1 Unary relationship 42 compacite attribute 43. Domain 44. none of above.

Good luck

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