1. Characteristics of GSAM applicable for BSAM/QSAM db?

a) Symbolic checkpoint call allowed---------->ANS
b) Symbolic checkpoint call not allowed
c) Fixed length record allowed---------->ANS
d) Variable or undefined record allowed---------->ANS
e) Restart from checkpoint allowed---------->ANS

2. status code of AK? ----------> Field name specified on SSA is not defined in the DBD

3. User abend code U0100? ----------> Bad Checkpoint

4. Qualified GN & GNP call return code 'GB' indicates? ----------> End of database reached

5. Component of IMS DL/I call that provide information about the segment to be retrived?----->SSA

6. Command code that IMS call uses to not replace particular segment?

a)C
b)F
c)N---------->ANS
d)D

7. Command code to issue path?

a)V
b)L
c)P
d)D---------->ANS

8. Coding standard for multiple positioning for PCB? -------->POS=M

9. Maximum number of segment types in db restict to? ----------> 255

10. In DBDGEN TYPE=X denotes which datatype? ----------> Hexadecimal datatype

11. In DBDGEN which macro supress the listing of matching instructions? ------>PRINT NOGEN

13.Staus code returned by IMS when pgm tries to load same segment twice.
a.LD
b.LB----------ANS(segement already exits)
c. LC
d. LE

14. Status code GK?----------> Diff segment type at the same segment level

15. U3303? ----------> database down or stopped

16. Name the process of creating control block PSB? -------->PSBGEN

17. Characteristics of IMS batch environment?

a) Batch address space not connected to IMS online control segment-------->ANS
b) Can access only full function database such as HSAM,HDAM etc and not fast path database as DEBD,MSDB etc------->ANS
c) Not possible to access full function database that are online to IMS online control segment

d) All IMS code used by application resides in batch address space where program running ---------->ANS

e) Batch address space opens and reads IMS dataset directly------>ANS

19. Access method used for HISAM? ----------> VSAM

21. AIB is defined in working storage of application program?(t or f) --------> True

22. Status code check after every DL/I call? (t or f) -------->True

26. Upto _____ SSAs can be used in a single IMS call ---->15

27. How to access secondary DB in IMS to?
    a) By using XDFLD field ---------- ANS
    b) By defining PROCOPT=indexed db name in pcb
    c) By defining Procesq = index in pcb
    d) By defining Procesq = indexed DB name in pcb---------- ANS

28. ------ to select DB records in sequence other than defined by key field
    a) Secondary index

29. In unqualified SSA, space is in ---- th field
    a) 9th field

30. How to identify Logical child in db?
    a) L-child in psb
    b) L-child in pcb
    c) L-child in Linkage section
    d) LCHILD in Dbd---------->ANS

31. False for HDAM access method?
    a) Cannot have non unique root segment key---------->ANS
    b) Fast access to root
    c) Reuse of space
    d) Quick access to segment

32. In DD statement which is optional in executing DL/I job?
    a) Proclib
    b) Ims
    c) DFSRESLB
    d) IEFRDER---------->ANS

33. Where to define IO-PCB
    a) Psb
    b) Linkage section---------->ANS
    c) DBD
    d)PCB

34. Types of fast path DB---------->DEDB,MSDB

35. GK status for:----------> Different segment type at same level

36. DB access are offline for ----- mode of process
    a) all
    b) MPP
    c)BMP

d) DL/I---------->ANS

37. Optional parameter in IMS call
a) SSA ----------> ANS
b) IO-area
c)Pcb mask

38. Status call which will not result from REPL call
a) DJ
b) DA
c) II ----------> ANS
d) RX

39. Type of CHKP call used in MPP
a) both
b) none
c) symbolic chkp
d) basic checkpoint----------> ANS

40. In xrst call non space in program is indicated at---- position
a) 12
b)9
c) 10
d) 6

41. GK status code possible in ------- call
a) Qualified GN
b) Unqualified GN ----------> ANS
c) Unqualified GU
d) qualified GU

43. Procopt option 慸 S□ means? ----------> Load in ascending sequence in ISRT(insert)

44. -------- is used to logically end Ims application by releasing resources from IMS
a) Stop Run
b) Go Back ----------> ANS
c) none

45. Max. no. of secondary index in single ims db
a) 1000 ----------> ANS
b) 100
c) 500
d) 750

46. Sibling segment define------>the segments of different types and the same parent.

47. Rules parameter is used in
a) DBD---------->ANS
b) PSB
c) ACB
d) PCB

49. ims call to reset PCB Pointer?
a) GN
b) GNP

c) GU---------->ANS
d) GHU

50. Max.no of data area in symbolic check point is
a) 8
b) 7 ----------> ANS
c)6
d)5

51. All files used for checkpoint and restart must be
a) Related to any IMS database files
b) Related to only GSAM database files------->ANS
c) Related to HDAM & GSAM database only
d) Related to HSAM &GSAM database only

52. What is the function code with which the GA status code is issued by IMS?
a) GN ----------> ANS
b) GHNP
c) GHU
d) GU

53. Functions of symbolic checkpoint call
a) Commit changes program has made to database----->ANS
b) Establish places in programs from where program can be restarted it----->ANS
c) To save as many as seven data area containing critical data which are restored when program is restarted---->ANS
d) An XRST call with blank checkpoint Id is required to execute prior to CHKP call to indicate IMS that symbolic checkpoint is taken------>ANS

55. Status code for success ----------> Spaces

56. Maximum number of bytes for function code ----------> 4 byte

58. Various modes of processing in IMS ◆ BMP, MPP, Batch DL/I

59. Command code which is used to reserve room in SSA for a command code ----> Null command code(-)
60. What are the characteristics of GSAM applicable for a VSAM ESDS database?
a) Fixed length record allowed----------> ANS
b) Variable length record allowed----------> ANS
c) Symbolic checkpoint call allowed----------> ANS
d) Restart from a checkpoint allowed

61. GN or GNP calls that cannot be satisfied for a particular parent but can be satisfied further in database under a different parent
a) F and L
b) D and V
c) D and N
d) U and V ----------> (ANS)

62. Statement used as last statement to terminate the program and return control back to IMS?
a) Stop
b) Goback----------> ANS
c) Stoprun
d) exit

64. HDAM database consists of single dataset?--------->TRUE

65. What do we understand from uni-directional logical relationship in logical database?----> Links 2 segment types(Logical child and logical parent) in 1 direction

66. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?---------->SEGM

a) SEGM
b) segment
c) DBDGEN
d) PSBGEN

67. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the
listing of PCBs in the entry statement (t or f)---------->TRUE

68. An IMS program performs insert operation on a database into segment with no key field. What is the insert rule which indicates that new segment are inserted at the end of the twin chain?

a) any
b) here
c) last ----------> ANS
d) end

69. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity (t or f)---------->TRUE

70. Where is the randomizing module name specified for HDAM database?

a) PSB
b) ACB
c) PCB
d) DBD ----------> ANS

71. What is the language interface module(DFSRRC00) used for?----------> IMS is given control first by invoking this module

72. Response to solve the user abend U0826
IMS unable to open index database
A) DBD COMPILED OUT OF SEQUENCE; B) MISSING DD FOR IMS; C) MISSING REGION FOR MVS; D) GENERATION OF DB HIDAM WITHOUT PARAMETER DCB DSORG=IS.

73. Which command code is used for more than one purpose by dynamically modifying SSA

a) null command code ----------> ANS
b) F
c) U
d) V

74. Access from dependent to dependent or root to dependent in HDAM database is always via---->Pointers

75. Characteristics of HISAM

a) Parent and child will be stored in physical sequence--------->ANS
b) Overflow area maintain for addition of segment---------->ANS
c) DASD space is reusable when segment are deleted
d) Pointer are used when dependent segment stored in overflow area----->ANS

76. ACB (select one or more)

a) Pre-built or dynamically created for online application
b) Combines DBD and PSB into executable load module---------->ANS
c) ACBs are pre or dynamically built for batch application---------->ANS
d) ACB is to be pre-built for online application---------->ANS

77. Sequential retrival of the data from IMS db can be done with?
a) GU
b) GU with SSA
c) GN ----------> ANS
d) GU with no SSA

78. Solution for SB37 abend for GSAM file processing
a) Out of space error----------> ANS
b) Add new VOL= SER= XXXXXX to pool of pack----------> ANS
c) Change secondary allocation space quantity----------> ANS
d) Wrong record format in JCL and disk has I/O failure

79. Command for path call----------> D

80. Command call for not to replace a particular segment----------> N

81. Code that is used during PSBGEN to generate IOPCB which needed to be used with CHKP,XRST calls---->CMPAT=Y

82. Why IMS is heterogenous?
a) DL/I interface separate data from application---->ANS
b) Application can be development on workstate and run in host environment
c) IMS application can run on Linux environment and access IMS data using IMS connect--->ANS
d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model----->ANS

84. Qualified GN & GNP call return code 'GB' indicates? ----------> End of database reached on GN call

85. Status for load same segment twice?----------> LB

87. Db record in IMS defined as
a) A root segment occurrence with all direct child segment occurrence
b) All occurrence of root segment with dependent segment occurrence
c) Only root segment with all dependent segment occurrence
d) A root segment occurrence with all dependent segment occurrence---->ANS

88. User abend U0826 occurred indicating IMS unable to open index database. What will be response to solve error
a) Check with DBA
b) Check existence of index db dataset------>ANS
c) Check with index db DD name correct------>ANS
d) Check buffer size specified large enough to hold data----->ANS
e) Check index db name correct------>ANS

89. Correct regarding GH retrival call.
a) Get hold retrival call program to issue GNP call in succession to it
b) Get hold retrival call program to issue DLET call in succession to it
c) Get hold retrival call program to issue REPL call in succession to it
d) Get hold retival call may not required program to issue DLET or REPL call in succession

to it. If any other call is issued, effect of get hold is nullified and treated as simple get call------->ANS.

KOLKATA

2. Match PROCOPT parameter
G ------->Access segment read only mode
I -------> To add data
R ----->To update segment
O --->Read without integrity pgm processing
E ------>Enable exclusive use of segment

3. True about PCB mask parameter in IMS call
a. PCB mask is a first parameter required in IMS call
b. PCB mask parameter is included in the call even if program access only one PCB or more than one---------->ANS
c. It is required in the call only if programm access multiple PCB's
d. It is required only when one PCB is accessed by IMS program

4. When extended restart function is used to restart the execution of a failed program, a GE status code is returned ?
a. Call preceding CHKP could have been a DLET call on same PCB.--------->ANS
b. Segment specified by concatenated key in the key feed back area of active pcb could be deleted by other program using the same PCB------>ANS
c. Active PCB key are used by restart is not a valid set of key.
d. Area used XRST & created by a prior CHKP call has no data related to PCB.

5. Invalid get hold call
a. GHP.....> ANS
b. GHNP
c. GHN
d. GHU

6. Segment in an IMS DB can be secured for specific operations through
a. Program
b. DBD
c. PSB
d. PCB------->ANS

7. At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the program, a GNP call as well will accomplish same result.
a. True
B. False-------->ANS

8. Prior to the execution of any application programm from an address space.(CHOOSE MULTIPLE OPTIONS)
a. check and adequate buffer availability for DB-------->ANS
b. required DBD & PSB must be loged in addess space---------->ANS
c. DB ds must exist--------->ANS
d. DL/I region controller DFSRRC00 is loaded in address space from sys lib------>ANS

9. Call success.....>Space

10. U0688
a. IMS ctrl programm is down and must be restored bfore any BMP proccessing done------->ANS
b. DB has been in stopped condition.
c. Region parm on a batch job is too small for programm to execute
d. DB contention and hence operator cancelled

10. Not a valid syntax for command code in IMS call
a. ward *PD
b. ward *D(ward no = 4)
c. ward *D
d. ward *D wardno = 4----------> ANS

11. Get unique('GUBB')(CHOOSE MULTIPLE OPTIONS)
a. always returns first sequence in db that satisfied the qualifications---------->ANS
b. access the next sequence record which satisfies unqualified SSA
c. retrives a specific segment occurence independent of current position--------->ANS
d. used for establishing POS within DB--------->ANS

12. GUBB & GHUB are used to retrieve a specific seg occurence independent of current position within DB qualified SSA identifying each hierachical level are normally provided. what happens when there are missing levels without qualified SSA in the call
a. unqualified SSA may be assumed for missing levels---------->ANS
b. current contol block into available for missing levels can be used
c. always returns first segment in DB that satisfies qualification
d. missing levels are not permitted

13. ACBGEN process(CHOOSE MULTIPLE OPTIONS)
a. stores internal format of PSB/DBD in ACBLIB
b. verifies the existence of DBDS---------->ANS
c. verifies key lenghth parameter---------->ANS
d. verifies PSB-PCB-DBD existence and compatibility------->ANS

14. Status code return after ISRT call to specify that no parent for segment being loaded exist
a. LB
b. LD .....> ANS
c. LE
d. LC

15.After the segment is accessed with a GET hold call, prior to a replace call user can modify
a. all field data within segment
b. any of the sensetive field data in segment except sequence field ----------> ANS (not sure)
c. entire segment data can be modified and replace in DB
d. segment entirely modified and written since replace is required to DEL & INSRT

16 In IMS DL/I application program execution which of the following options are applicable?(CHOOSE MULTIPLE OPTIONS)
a. application could have interfaces for file operations and DB operations
b. application programm may interface with one or more DL/I DB---------->ANS

c. pgm & DL/I are contained in separete programm address spaces
d. pgm & DL/I are contained in single programm address spaces---------->ANS
e. when data is changed, a record of the db modification is written on DL/I system log.---------->ANS

17.number of factors must be considered by DBD while designing in DBD.(CHOOSE MULTIPLE OPTIONS)
a. hierarchical relationshipes of the accessed segments and processing permissions on accessed segment---------->ANS
b. name and format---------->ANS
c. segment name---------->ANS
d. various field formates------>ANS
e. awareness of DB recovery control specified for DB

18. U0047 abend.(CHOOSE MULTIPLE OPTIONS)
a. one of the DB PCB faild to obtained DBR (authorization for DB)--------->ANS
b. bring down DB using IMS command/DBR DB(data base name)---------->ANS
c. wait till contending job completes---------->ANS
d. restart job which failed after starting DB---------->ANS
e. first stop DB by using IMS command/STOP DB (DB name) & then start DB/start(DB name)

19. PROCOPT = K in PSB ----------> allows key only sensitivity(accessing the key field)

20. type of segment for which REPL function can be applied?
a. Fixed or variable length-------->ANS
b. FL seg only
c. FL seg with seg lenght not more than 500 bytes.
d. VL seg only.

21. Command code for not to replace perticular segment ----->N

22. IMS program performs insert operations on a DB into segment with no key field.
a. FIRST---------->ANS
b. HERE---------->ANS
c. ANY
d. LAST---------->ANS

23. HDAM access is efficient because.(CHOOSE MULTIPLE OPTIONS)
a. randomizing routien to locate the record---------->ANS
b. free space is generated when root segment is deleted with all it's dependent segment deleted---------->ANS
c. uses an index on the root key to locate record
d. free space when root segment deleted and dependent segment not deleted but marked as a deleted
e. results in the smallest number of synonyms

24. salient features of HSAM.(CHOOSE MULTIPLE OPTIONS) (check box)
a. dependent segment stored in the hierarchical sequence----------ANS
b. record format is fixed or variable
c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the

beggining of the segment.-------->ANS
d. segment in each record are stored physically adjacent to DB.---------->ANS

25. PCB has variable portion of .
a. segment name
b. segment level.
c. concatenated key area------->ans
d. DBD name

26. Nth position of SSA definition contains a left parenthisis to identify call as qualified SSa call. correct value of n.
a. 7
b. 8
c. 10
d. 9---------->ANS

28. purpose of DLI in IMS. (check box)
a.Enables the separation of app code from data.----->ANS.
b. enables app pgm access & navigate through data by using DL/I standard callable services.---->ANS.
c. non redundency of data------>ANS.
d. multiple apps can access & update single instance of data.---------->ANS
e.ensures secured access to data in DB.---------->ANS

30. What are calls for which an IO pcb req is used.
a. CHKP & XRST
b. CHKP & XRST. INQY, SETS &sys service calls--------->ANS
c. only SSC
d. CHKP ,XRST,UPDt.

30. XRST call try to reposition all dbs to position that were held when last CHKP is taken.---->TRUE

31. Command code to get the First occurence of twin segment occurrnces ---------->F.

32. SB37 abend code for a GSAM file.
a. vol----------> ANS
b. out of space----------> ANS
c. secondary allocation----------> ANS
d. RECFM in JCL.

33. Hosp- ward- patient
a.Qualified by GU by GN.

35. GU call is used which has no SSA used.---->retrieve the first root segment occurrence.

36. IRLM is delivered as part of IMs production. how IRLM used for IMS Env (check box)
a. SYSplex-------->ANS
b.z/os---------->ANS

37. HIDAM DB is made of 2 database main DB & index.what type of DB are used for dese:
a. Both VSAM & KSDS
b. I is VSAM KSDS & M in VSAM ESDS or OSAM.---------->ANS
c. I is VE & M in VE
d. I is VE & M in Vk

38. PROCOPT to insert in DB in Asec. SEq.----------> IS

39. No. of bytes for a function code in IMS call.----------> 4 bytes

40.parameter DBRC=Y is used with CHKP& XRST calls------>F.

41. staus code returned by IMS when pgm tries to load same segment twice.
a.LD
b.LB ----------> ANS
c. LC
d. LE

42. HISAM stores root sgment & many dependent segment as possible in-
a. KSDS & fd primary & one rd low rec in second KDS
b. KSDS & OSAM
c. QSAM & OSAM
d. KSDS & ESDS---------->ANS

43. logical relation between two segmnts is defined in
a. PCB----->ANS
b. Database record
c. logical seq block
d. IMS CB

44. HDAM databases consists of a single Dataset (Check box)
a. VSAM/ESDS OR OSAM--------->ANS
b. VSAM/KSDS OR OSAM
c. DS- Root adressable
- one sd low
d. root adressable - root segment occur
- dependent

45. AK staus code.----------> field name specified for qualified SSA is incorrectly coded

46. always input from one GSAM DB & o/p to another GSAM DB
a. true---------->ANS
b. false

47. maximun no.of bytes that can be defined for a DL/I fn code in IMS call.
a.3
b.4--------->ANS
c.9
d.6

48. which parameters is coded during PSB gen to generate IO PCB which needs to be used with CHKP, XRST calls?
a. CMPAT = N
b. CMPAT = Y---------->ANS
c. DBRC = Y
d. DBRC = Y & CMPAT = N.

49. IMS call not to replace a particular segmwent
a.D
b.F
c. C

d. N--------->ANS

50. PROCOPT used to insert DB in insert mode & asc.seq
a. I
b. IS ----------> ANS
c.L
d. Ls

51. What are properties of D & N command codes? ----> D-Path call & N-Not to replace the segment

52. IMS call to reteive first occurences in twin chain
a. U
b.V
c. F---------->ANS
d. L

53. PCB mask parmeter is used in IMS call?
true or false---------->TRUE

54. What is the function code with which the GA status code is issued by IMS?
a) GN ----------ANS
b) GHNP
c) GHU
d) GU

1) What are the fields NOT used by the IMS in PCB mask associated with GSAM Database?
a. Key feedback area
b.segment level number---------->ANS
c.segment name---------->ANS
d.number of sensitive segments---------->ANS

2)segment definition specifies
a.sensitivity of the segment to the application
b.total length of the segment---------->ANS
c.internal representation of data within segment---------->ANS
d.category of related data within a segment---------->ANS

3)I-O PCB normally used for
a.only for terminal Io
b.for terminal IO and some DB calls like CHKP, XRST and LOG----->ANS
c.only for testing online programs
d.only for conversion to online from batch processing

4)How can the output record to be written in a GSAM database?
a.can write output record anywhere in the DB as per key sequence order
b.can write output record to the end of the DB---------->ANS
c.can write output record to as per Record Searching Argument(RSA)
d.can write output record to the beginning of DB

7)Correct definition of number of segments field in PCB-mask defined in COBOL?
a. PIC S9(05) Comp ----------> ANS
b. PIC x(04)
c. PIC 9(04)V 99
a. PIC A(04)

8)Reason for code U0853?
a.the PSB used by the program is invalid or corrupted
b.using a wrong DB
c.After a reorg, use Old DB with the new DBD or vice versa
d. PSB needs to be restarted
d.Using corrupted DB---------->ANS

9)What is the solution for SB37 abend for GSAM file processing?
a.This is an out of space error----------> ANS
b.Add a new VOl=SER=XXXXXX the to your pool of packs so that the Dataset corresponding to this new pack----------> ANS
c.May also change the secondary allocation space quantity ----------> ANS
d.Wrong record format specified in JCL and the file has an IO failure

10)An application program issued an IMS call and retrieved to expected data from the segments of DB, what is the name of the
area that contains key of the last segment incountered satisfying the field of the call and indicating the details of the path of the call?
a.SSA
b.function code
c.key feedback area---------->ANS
d. PCB mask
e. PSB mask

11)what is DL/I?
a.DL/I is a programming language
b.DL/I is a set of modules interface (DB menu/ T.M.) and the application process--->ANS
c.DL/I is a command level language and it is external to the application program----->ANS
d.DL/I can be used in both online and batch programming-------->ANS

12)LC status Code? ----------> Key values out of sequence

14)User abend U0777? ----------> Database contention and operator cancelled.

15)While coding PCB in a program , which field indicate the level of segment that is just processed?
a.DL/I-SEQ
b.status-Code
c.PROC- option
d.SEG-LEVEL---------->ANS

16)Control blocks for IMS-DB environment----------> DBD and PSB

17)The AIB is defined in working storage section - TRUE/FALSE ----------> True

18)which of the below combination of command codes is used to allow the program to process multiple segments using a single call?
a.C and N
b.D and N---------->ANS
c.F and U
d.D and U

19)L and LS ----------> L- load & LS- Load in ascending sequence

20) when involving CHKP or XRST function in program, the PCB specified should be_____
a.Related to DB-PCB followed by IO-PCB

b.Related to both DB-PCB's and Io-PCB specified in mixed manner
c.Related to only a single IO-PCB----->ANS
d.Related to IO-PCB followed by DB-PCB

21)Which of the below is correct definition of key length in the PCB mask data structure in COBOL?
a.S9(04) Comp
b.S9(07) Comp
c.S9(08) comp
d.S9(05) comp ------------------------------> ANS

22)Always input taken from one GSAM and output written in another GSAM - True/ False---->true

23)Which of the following is NOT a valid syntax for coding Command code?
a.W*D
b.W*D(WARDNO=04)
c.W*PD
d.W*D WARDNO=04--> ANS

24)IMS is heterogenous?---------->TRUE

25)AC,AI,DA,GE(match the following)
a.Calls has SSA with hierarchial error---------->AC
b.specified segement not found all Get calls------->GE
c.Sequence field is changed to REPL---------->DA
d.error while opening DB all calls---------->AI

26)HDAM DB consists of a single dataset
a.which is VSAm /ESDS or OSAM---------->ANS
b.Root addressable area contains the root segment and all its dependent segment occurances

27) GSAM can't use conactenated Datasets- true/False---->FALSE

28)key field of a segment starts at Pos-1 - True / False--->False

30)IMS system log contains before/after IMG, restart IMG----->TRUE

55. Correct statement regarding GN call issued as a first call with no SSA -->retrieve the first root occurrence

58. Normally parentage is established at lowest segment accessed for GU & GN calls,that parantage remains in effect for subsequent.----->GNP calls

60. meaning of batch backout
http://www.ibm.com/support/knowledgecenter/SSEPH2_13.1.0/com.ibm.ims13.doc.dur/ims_dfsbbo00.htm

61. Get next('GNBB')---retrieves the next segment in the
hierarchy as defined in the PCB. To determine this next segment, DL/I relies on
the previously established position

63.for a segment to be deleted,which procopt is used? --- 摘

64. If after issuing a GH call, the program determine that it is not neccessary to change or delete.The retrival segment what will happen to segment field by previous GH call?--->
Application program can proceed further without releasing the hold.Anycall issued willl nullify the

effect of hold(i.e hold is released)

65. In IMS database, a segment has to be defined in such way that the segment is data sensitive and application can retrive the segment but cann't delete or replace the segment . PROCOPT=?----------->G

67. user abend U3303, U0007(Message text varies). SB37(abend for GSAM file processing), U0688, U0777, U0853.
U3303 ------> database stopped, SB37 ---> Space problem, U0688---->IMs not active, job cancelled(JOB ran in the wrong JOB class)

71. Various modes of processing of IMS ? BMP, MPP, Batch DL/I

73. Key field of a segment starts at position 1. (T/F)----->F

75. GSAM cann't use concatenated ds. (T/F)----->F

76. indicate level of segment processed(DLI-SEQ, SEQ-LEVEL, SC,PRA-OPTION)---->SEQ-LEVEL.

79. i/p in the GSAM ,o/p is in other GSAM. (T/F).---->T

81. key length sq(05), sq(08), sq(07), sq(04).--->S9(05)

84. LC?--->Keys out of sequence

12)GU call is issued which has no SSA's used
a.IMS assumes a fully qualified call & retrieves the data from last segment of DB record
b.IMS assumes a fully qualified call & retrieves the data from all segments of entire DB keeping prior hiearachy
c.IMs assumes a fully qualified call & retrieves the data from all segments of DB record
d.IMS assumes SSA for root segment & retrieves the first occurence of root segment------ans

27)which unit data transfer DL/I to application program?
a.segment data-------- ANS
b.data of fields
c.logical data

13)User abend U0476 pgm storage area of the PCB(check box)
a.PSB language specified in PSB is the same as language used in pgm--------->ANS
b.Number & order of the PCB in PSB match with number and order specified in the pgm---->ANS
c.In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB---->ANS
d.The address of PCB in pgm has been overloaded in pgm---->ANS
e.DBD name specified in PSB either missing or compared in DBDLIB

24)U0136 - A previous program abendhas hung up the IMS region.

24)U0844 abend--No space is available in the database, or the data set is defined as DSNAME=NULLFILE or DD DUMMY

25)User abend U0777? - Database contention and operator cancelled.

18)pointers are used in hierarchial direct DB------>true

19)U0688 - IMS DOWN

54. What are the implications of secondary indexes and logical relationships in IMS db?
a)Both are the methods to access the database in an alternate way.--------->ANS
b)Both will create new structures that is different from the original structure of a database--------->ANS
c)Both are maintained automatically--------->ANS
d)Logical relationships can be defined by secondary indexes only

1. Characteristics of IMS batch environment?

a) Batch address space not connected to IMS online control segment

b) Can access only full function database such as HSAM, HDAM etc and not fast path database as DEBD,MSDB etc

c) Not possible to access full function database that are online to IMS online control segment

d) All IMS code used by application resides in batch address space where program running

e) Batch address space opens and reads IMS dataset directly

2. Characteristics of GSAM applicable for BSAM/QSAM db?

a) Symbolic checkpoint call allowed

b) Symbolic checkpoint call not allowed

c) Fixed length record allowed

d) Variable or undefined record allowed

e) Restart from checkpoint allowed

3. Role of ims transaction manager?

a) Process I/P msg from a variety of source

b) Process O/P msg from application

c) Provide queuing mechanism for handling these msgs

d) Provide efficient txn processing for IMS db and db2

4. What are the fields NOT used by IMS in PCB mask associated with GSAM DB?

a. KFA

b. Segment level number

c. Segment name

d. No of sensitive segments

5. User abend U0476 pgm storage area of the PCB(check box)

a.PSB language specified in PSB is the same as language used in pgm---------->The PSB language specified is not the same as that of the application program.

b. Number & order of the PCB in PSB match with number and order specified in the pgm

c. In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB

d. The address of PCB in pgm has been overloaded in pgm

e. DBD name specified in PSB either missing or compared in DBDLIB

6. DBD specifies (check box)

a. HDAM randomizing module---------->ANS(doubt)

b. access method used

c .name of physical dataset which hold the databases

d. Characteristics of dataset to DBMS

7. HDAM databases consists of single dataset (checkbox)

b. Not addressable contain root segment & all its dependent segment occurrence

a) Root AA contains root segment

b) Which is VSAM/KSDS/OSAM

c) Which is VSAM/ESDS/OSAM

d) Divided into RAA and OAA

8. In IMS DL/I application program execution which of the following options are applicable?(CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations

b. application program may interface with one or more DL/I DB

c. pgm & DL/I are contained in separate program address spaces

d. pgm & DL/I are contained in single program address spaces

e. when data is changed, a record of the db modification is written on PL/I system log.

9. XRST call try to reposition all database to the position that were hold when last CHKP is taken (CHECK box)

a. By including each PCB's PCB key feedback area in chKPT record

b. Using XRST call will move the PCB key feedback area from CHKP record to the corresponding PCB in PSB that is to be restarted

c. IMS issues a GU call based on concatenated key in KFA on each active PCB's to access the segment that was positioned

d. introduce each PCB & PCB key feedback area in CHKP record which is done automatically when CHKP call is made

10. if after issuing a get hold call, the pgm determine that it is not necessary to change or delete the retrieved segment.what will happen to the segement field by previous GH call?

a. Segment remain in locked condition & has to be released explicitly by RLSE call before it becomes available for access for other call

b. Pgm can proceed further as its a normal GET call without hold
c. Any other call executed after GH on the same PCB will be releasing the HOLd
d. Any other call executed on any PCB or the DB will be releasing HOLD condition

11. number of factors must be considered by DBD while designing in DBD.(CHOOSE MULTIPLE OPTIONS)
a. hierarchical relationshipes of the accessed segments and processing permissions on accessed segment
b. name and format
c. segment name
d. various field formates
e. awareness of DB recovery control specified for DB12

12. Characteristics of HISAM
a) Parent and child will be stored in physical sequence
b) Overflow area maintain for addition of segment
c) DASD space is reusable when segment are deleted
d) Pointer are used when dependent segment stored in overflow area

13. ACB (select one or more)
a) Pre-built or dynamically created for online application
b) Combines DBD and PSB into executable load module
c) ACBs are pre or dynamically built for batch application
d) ACB is to be pre-built for online application

14. Solution for SB37 abend for GSAM file processing
a) Out of space error
b) Add new VOL= SER= XXXXXX to pool of pack
c) Change secondary allocation space quantity
d) Wrong record format in JCL and disk has I/O failure

15. User abend U0826 occurred indicating IMS unable to open index database. What will be response to solve error
a) Check with DBA
b) Check existence of index db dataset
c) Check with index db DD name correct
d) Check buffer size specified large enough to hold data
e) Check index db name correct

16. segment definition specifies
a. sensitivity of the segment to the application
b. total length of the segment
c. internal representation of data within segment
d. category of related data within a segment

17. what is DL/I?
a.DL/I is a programming language
b.DL/I is a set of modules interface (DB menu/ T.M.) and the application process
c.DL/I is a command level language and it is external to the application program
d.DL/I can be used in both online and batch programming

18. Get unique('GUBB')(CHOOSE MULTIPLE OPTIONS)
a. always returns first sequence in db that satisfied the qualifications
b. access the next sequence record which satisfies unqualified SSA
c. retrives a specific segment occurence independent of current position
d. used for establishing POS within DB

19. Prior to the execution of any application programm from an address space.(CHOOSE MULTIPLE OPTIONS)doubt
a. check and adequate bubuffer availability for DB
b. required DBD & PSB must be loged in addess space
c. DB ds must exist
d. DL/I region controller DFSRRC00 is loaded in address space from sys lib

20. When extended restart function is used to restart the execution of a failed program, a GE status code is returned.
a. Call preceding CHFP could have been a DLFT call on same PCB.
b. Segment specified by concatenated key in the key feedback area of active pcb could be deleted by other program.
c. Active PCB key are used by restart is not a valid set of key.
d. Area used XRST & created by a proof CHKP call has no data related to PCB.

21. ACBGEN process (CHOOSE MULTIPLE OPTIONS)

a. stores internal format of PSB/DSB in ACBLAB
b. verifies the existence of DBDS
c. verifies key length parameter
d. verifies PSB-PCB-DBD existence and compatibility----------ans(doubt)

23. U0047 abend.(CHOOSE MULTIPLE OPTIONS)
a. one of the DB PCB faild to obtained DBR (authorization for DB)
b. bring down DB using IMS command/DBR DB(data base name)
c. wait till contending job completes
d. restart job which failed after starting DB
e. first stop DB by using IMS command/STOP DB (DB name) & then start DB/start(DB name)

24. HDAM access is efficient beacause.(CHOOSE MULTIPLE OPTIONS)
a. randomizing routine to locate the record
b. free space is generated when root segment is deleted with all it's dependent segment deleted
c. uses an index on the root key to locate record
d. free space when root segment deleted and dependent segment not deleted but marked as a deleted
e. results in the smallest number of synonyms

25. salient features of HSAM.(CHOOSE MULTIPLE OPTIONS) (check box)
a. dependent segment stored in the hierarchical sequence
b. record format is fixed or variable
c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the beggining of the segment
d. segment in each record are stored physically adjacent to DB

26. purpose of DLI in IMS. (check box)
a. Enables the separation of app code from data.
b. enables app pgm access & navigate through data by using DL/I standard callable services.
c. non redundency of data.
d. multiple apps can access & update single instance of data.
e. ensures secured access to data in DB.

27. Why IMS is heterogenous?
a) DL/I interface separate data from application
b) Application can be development on workstate and run in host environment
c) IMS application can running on Linux environment and access IMS data using IMS connect
d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model

1. AIB defined in working storage of application program?(t or f) **true**
2. Status code check after every DL/I call? (t or f) **true**
3. DL/I calls can execute directly within DB batch using JCL? **True**
4. In HIDAM segments tied together without need of segment physically adjacent. **True**
5. Relation between PCB mask and PCB is created by listing of PCB in entry statement? **TRUE**
6. Segment A,B,C,D,E: GU call at D, Parentage at D, so GNP call will return E. **True**
7. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the listing of PCBs in the entry statement (t or f) **True**
8. IMS system log contains before/after IMG, restart IMG **True**
9. AIB is in working-storage section**. True**
10. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity. **True**
11. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls→ **true**
12. Always input from one GSAM DB & o/p to another GSAM DB. **True**
13. Pointers are used in hierarchical direct DB------>**true**
14. PCB mask parm used in IMS call? **True**
15. Program specification block is made up of one or more program communication blocks. State True or False. **True**
16. GSAM can't use concatenated Datasets- true/False---->**FALSE**
17. key field of a segment starts at Pos-1 - True / False--->**False**
18. At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the program, a GNP call as well will accomplish same result. **False**
19. Always Input taken from GSAM and output is also from GSAM? **False**
20. D command code is only one allowed on DLET call **False**

U0100-BAD CHECK[POINT
U3303-DATABASE DOWN OR STOPPED
SB37-DATABASE OUT OF SPACE
U0476-A DL/I CALL DOES NOT INCLUDE A VALID PCB ADDRESS
U0777-APPLICATION PROGRAM TERMINATED B/C POTENTIAL RESOURCE IS IN DEADLOCK CONDITION
U0844-DATA BASE FULL ERROR
U0475-CHKP CALL WITHOUT DOING A RESTART CALL FIRST
U0853-USING CORRUPTED DB
U0688-IMS CONTROL PROGRAM IS DOWN AND MUST BE RESTORED BEFORE ANY BMP PROCESSING
U0136-A PREVIOUS PGM ABEND HAS HUNG UP THE IMS REGION

MULTIPLE ANSWERS:

1. Coding standard for multiple positioning for PCB?

1. To satisfy an unqualified GN or GNP call, IMS uses the position established in the last call for that PCB.

2. If an unqualified GN or GNP call is successful, IMS cancels positions in all other hierarchic paths. Position is maintained only within the path of the segment retrieved.

3. Although multiple positioning is intended to be used with qualified calls for parallel processing and data independence, you may occasionally want to use unqualified calls with multiple positioning

2. Characteristics of IMS batch environment?

a) Batch address space not connected to IMS online control segment

b) Can access only full function database such as HSAM,HDAM etc and not fast path database as DEBD,MSDB etc

c) Not possible to access full function database that are online to IMS online control segment

d) All IMS code used by application resides in batch address space where program running

e) Batch address space opens and reads IMS dataset directly

3. How access secondary DB in IMS to?

a) By using XDFLD field

b) By defining PROCOPT=indexed db name in pcb

c) By defining Proceseq = indexed DB name in pcb

d) By defining Procesq = index in pcb

4. What are the characteristics of GSAM applicable for a VSAM ESDS database?

a) Fixed length record allowed

b) Variable length record allowed

c) Symbolic checkpoint call allowed

d) Restart from a checkpoint allowed

5. Characteristics of HISAM

a) Parent and child will be stored in physical sequence

b) Overflow area maintain for addition of segment

c) DASD space is reusable when segment are deleted

d) Pointer are used when dependent segment stored in overflow area

6. ACB (select one or more)

a) Pre-built or dynamically created for online application

b) Combines DBD and PSB into executable load module

c) ACBs are pre or dynamically built for batch application

d) ACB is to be pre-built for online application

7. Solution for SB37 abend for GSAM file processing

a) This is an Out of space error

b) Add new VOL= SER= XXXXXX to pool of pack so that the Dataset corresponding to this new pack

c) May also change the secondary allocation space quantity

d) Wrong record format in JCL and disk has I/O failure

8. Why IMS is heterogeneous?

a) DL/I interface separate data from application

b) Application can be development on work state and run in host environment

c) IMS application can running on Linux environment and access IMS data using IMS connect

d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model

9. Path in ims db is defined as

- A path is the series of segments that starts from the root segment of a database record to any specific segment occurrence.

- A path in the hierarchy structure need not be complete to the lowest level. It depends on how much information we require about an entity.

- A path must be continuous and we cannot skip intermediate levels in the structure

10. User abend U0826 occurred indicating IMS unable to open index database. What will be response to solve error

a) Check with DBA

b) Check existence of index db dataset

c) Check with index db DD name correct

d) Check buffer size specified large enough to hold data

e) Check index db name correct

11. Correct regarding GH retrieval call.

a) Get hold retrieval call program to issue GNP call in succession to it

b) Get hold retrieval call program to issue DLET call in succession to it

c) Get hold retrieval call program to issue REPL call in succession to it

d) Get hold retrieval call may not required program to issue DLET or REPL call in succession to it. If any other call is issued effect of get hold is nullified and treated as simple get call.

12. When extended restart function is used to restart the execution of a failed program, a GE status code is returned.

a. Call preceding CHFP could have been a DLFT call on same PCB.

b. Segment specified by concatenated key in the key feedback area of active pcb could be deleted by other program.

c. Active PCB key are used by restart is not a valid set of key.

d. Area used XRST & created by a priof CHKP call has no data related to PCB.

13. Prior to the execution of any application program from an address space.(CHOOSE MULTIPLE OPTIONS)

a. check and adequate bubuffer availability for DB

b. required DBD & PSB must be logged in address space

c. DB ds must exist

d. DL/I region controller DFSRRC00 is loaded in address space from sys lib

14. ACBGEN process (CHOOSE MULTIPLE OPTIONS)

a. stores internal format of PSB/DSB in ACBLAB

b. verifies the existence of DBDS

c. verifies key length parameter

d. verifies PSB-PCB-DBD existence and compatibility

15. In IMS DL/I application program execution which of the following options are applicable? (CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations

b. application program may interface with one or more DL/I DB

c. pgm & DL/I are contained in separate program address spaces

d. pgm & DL/I are contained in single program address spaces

e. when data is changed, a record of the db modification is written on PL/I system log.

16. number of factors must be considered by DBD while designing in DBD.(CHOOSE MULTIPLE OPTIONS)

a. hierarchical relationships of the accessed segments and processing permissions on accessed segment

b. name and format

c. segment name

d. various field formats

e. awareness of DB recovery control specified for DB

17. U0047 abend. (CHOOSE MULTIPLE OPTIONS)

a. one of the DB PCB failed to obtained DBR (authorization for DB)

b. bring down DB using IMS command/DBR DB(data base name)

c. wait till contending job completes

d. restart job which failed after starting DB

e. First stop DB by using IMS command/STOP DB (DB name) & then start DB/start (DB name)

18. IMS program performs insert operations on a DB into segment with no key field.

a. FIRST

b. HERE

c. ANY

d. LAST

19. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS)

a. randomizing routine to locate the record

b. free space is generated when root segment is deleted with all its dependent segment deleted

c. uses an index on the root key to locate record

d. free space when root segment deleted and dependent segment not deleted but marked as a deleted

e. results in the smallest number of synonyms

20. Salient features of HSAM. (CHOOSE MULTIPLE OPTIONS) (check box)

a. dependent segment stored in the hierarchical sequence

b. record format is fixed or variable.

c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the beginning of the segment.

d. segment in each record are stored physically adjacent to DB.

21. Purpose of DLI in IMS. (Check box)

a. Enables the separation of app code from data.

b. enables app pgm access & navigate through data by using DL/I standard callable services.

c. non redundancy of data.

d. multiple apps can access & update single instance of data.

e. ensures secured access to data in DB.

22. What are the fields NOT used by the IMS in PCB mask associated with GSAM Database?

a. Key feedback area

b. segment level number

c. segment name

d. number of sensitive segments

23. segment definition specifies

a. sensitivity of the segment to the application

b. total length of the segment

c. internal representation of data within segment

d. category of related data within a segment

24. What is DL/I?

a. DL/I is a programming language

b. DL/I is a set of modules interface (DB menu/ T.M.) and the application process

c. DL/I is a command level language and it is external to the application program

d. DL/I can be used in both online and batch programming

25. IMS based on open standard

a) DL/I Support IMs database access

b) Support of java standard application

c) XML support transparent document interchange

26. What are the implications of secondary indexes and logical relationships in IMS db?

a)Both are the methods to access the database in an alternate way

b)Both will create new structures that is different from the original structure of a database

c)Both are maintained automatically

d)Logical relationships can be defined by secondary indexes only

27. User abend U0476 pgm storage area of the PCB(check box)

a.PSB language specified in PSB is the same as language used in pgm

b.Number & order of the PCB in PSB match with number and order specified in the pgm

c.In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB

d.The address of PCB in pgm has been overloaded in pgm

e.DBD name specified in PSB either missing or compared in DBDLIB

28. Which are true about secondary data structures?

a) When we build a secondary index, the apparent hierarchical structure of the database is also changed. The new structure is called secondary data structure
b) If the root segment is the target segment, secondary data structure is same as physical database structure
c) If target segment is a dependent segment, the dependent segment becomes the root segment

d) Structure becomes inverted with the parent of the target segment as the child of target segment to the left.

29.Which of the following statements are true about PSB?

a) PSB provides the application program's view of the physical database
b) Application programs having similar database processing requirements can share a single PSB
c) Application programs can use only 1 PSB in a single execution
d) Application programs can use multiple PSBs in a single execution

30.Role of ims transaction manager?

a) The IMS Transaction Manager (IMS TM) is a separate set of licensed programs that provide access to the database in an online, real-time environment.
b) Without the TM component, you would be able to process data in the IMS database in a batch mode only.
c) With the IMS TM component, you can access the data and can perform update, delete, and insert functions online

31. Role of ims transaction manager?

d) Process I/P msg from a variety of source
e) Process O/P msg from application
f) Provide queuing mechanism for handling these msgs
g) Provide efficient txn processing for IMS db and db2

32. DBD specifies (check box)

a. HDAM randomizing module

b. access method used

c. name of physical dataset which hold the databases

d. Characteristics of dataset to DBMS

33. Option that is correct regarding SSA coding.

a) First field in SSA are of 8 bytes

b) Left padded with space

c) Right padded with space

d) Right padded with * and call cannot execute

34. which environment used for running application which use symbolic checkpoint and restart call

a) MPP

b) BMP

c) Transaction BMP

d) Batch environment

35. Application environment from which IMS database can access,

a) IMS TM

b) CICS for Z/OS

c) Z/OS batch

d) Application running under TSO

e) Web sphere application server for Z/OS

36. Number of factors must be considered by DBD while designing in DBD. (CHOOSE MULTIPLE OPTIONS)

a. hierarchical relationships of the accessed segments and processing permissions on accessed segment

b. name and format

c. segment name

d. various field format

37. XRST can be used after previous abnormal termination of program

a) To restart from specific checkpoint ID

b) To restart from specific time/time stamp

c) To restart from last checkpoint ID & must be executed as last call in program

d) To restart from last checkpoint ID for BMP & execute as first call in program

38. How indexing done for HISAM db

a) Each HISAM record is indexed based root key

b) In HISAM initial loading of data is done on ascending key sequence of root

c) Using index record is accessed. Therefore the required segment occurrence is accessed by sequential search

d) All DL/I calls except CHKP & XRST can be applied

****

STATUS CODES:

AH - invalid SSA encountered on insert call

AJ - SSA specified for the call is invalid

AM - function specified is not compatible with one of segment sensitivity, program type, or PCB processing

AO - a physical I/O error has occurred

AC – Calls has SSA with hierarchial error

AI – error while opening DB all calls

AB - segment I/O area is missing from call statement

AD - function argument is not coded correctly

GN CALLS:

AJ - SSA specified for the call is invalid.

AK – Field name specified on SSA is not defined in the DBD/

Field name specified for the qualified SSA is incorrectly used.

GE – segment not found

GK - New segment type (different segment type) at the same level is retrieved.

GA - Moved up in level to retrieve the segment.ie. Higher level segment is retrieved.

GB - End of database is reached.

DELETE CALLS:

DA - Program has changed the segment's KEY FIELD

DJ - Delete call issued witho recut an immediately preceding Get Hold call

DX - Encountered a Delete Rule Violation

AJ - Used an SSA which is Qualified

REPLACE CALLS:

DA - Program has changed the segment's key field

DJ - Replace call issued without an immediately preceding GETHOLD call

RX - Encountered a Replace Rule

AJ - Used an SSA without command code in the REPL

INSERT CALLS:

LB - When you try to load the same segment twice .

LC - The segments being loaded are not in their Hierarchical sequence i.e. key values out of sequence

LD - No parent for the segments being loaded. You cannot load a dependant segment until its parent has been loaded.

LE - Segment types out of sequence.

IX - insert rule violation

****

PROCOPT:

G get

I insert

R get and replace

D get and delete

A get, insert, replace, and delete

P required if the D command code is to be used

O do not perform integrity checks for read only processing must be specified as GO, GON, GONP, GOT, GOTP, or GOP

N do not abend on invalid pointer, return GG instead must be specified as GON, GONH, or GONP

T same as N but automatically retries before returning GG must be specified as GOT, GOTH, or GOTP

E enable exclusive use by online program

L load

GS get in ascending sequence (hsam only)

LS load in ascending sequence (hidam or hdam only)

H use high speed sequential processing

COMMAND CODES:

C – concatenated key

D – path call (retrieve path/issue path)

F – first occurance

L – last occurance

N- path call ignore (do not replace the segment)

P – set parentage

Q- enqueue segment

U – maintain current position at this level

V- maintain urrent position at this level and all above levels

- -> null command code/ignore

****

SINGLETON ANSWERS:

1.Component of IMS DL/I call provide information to segment to be retrieved?

SSA

2.Coding standard for multiple positioning for PCB?

POS=M

3.Maximum number of segment type in dB restrict to? ----------> 255

4.Maximum number of levels ----------→ 15

5.In DBDGEN TYPE=X denotes which data type? ----------> Hexadecimal data type

Other data types:

C - Character
P -packed decimal
Z -zoned decimal
H -half word binary
F -full word binary

6.In DBDGEN suppress the listing of matching instructions? PRINT NOGEN

7.Type of segment for which REPL function can be applied?

a. FL OR VL

b. FL seg only

c. FL seg with seg lenght not more than 500 bytes.

d. VL seg only.

8.Name the process of creating control block PSB? PSBGEN

9.Access method used for HISAM? ----------> Random and sequential.VSAM

10.AIB defined in working storage of application program?(t or f) --------> True

11.Status code check after every DL/I call? (t or f)

12.Upto 15 SSA in single IMS call

13.------ to select DB records in sequence other than defined by key field

Secondary index

14.Unqualified SSA space is in ---- th field

9th field

15.How to identify Logical child in db?

a) L-child in psb
b) L-child in pcb
c) L-child in Linkage section
d) L-child in Dbd

16.False for HDAM access method?

a) Cannot have non unique root segment key
b) Fast access to root
c) Reuse of space
d) Quick access to segment

17.In DD statement which is optional in executing DL/I job?

a) Proclib
b) Ims
c) DFSRESLB
d) IEFRDER

18.Where to define IO-PCB

a) Psb

b) Linkage section

c) DBD

d)PCB

19.Types of fast path DB-

DEDB,MSDB

20.DB access which are offline for ----- mode of process

a) all

b) MPP

c)BMP

d) DL/I

21.Optional parameter in IMS call

a) SSA

b) IO-area

c)Pcb mask

d) none

22.Status call will not result in REPL call

a) DJ

b) DA

c) II

d) RX

23.Type of CHKP call in MPP

A) both

b) None

c) Symbolic chkp

d) Basic chkp

24.In xrst call non space in program is indicated at---- position

a) 12

b) 9

c) 10

d) 6

25.GK status code is possible in _____call

a) Qualified GN

b) Unqualified GN

c) Unqualified GU

d) Qualified GU

26.Procopt option for 'LS'? ----------->

Load in ascending sequence in ISRT(insert)

27.-------- to logically end Ims application by releasing resources from IMS

a) Stop Run

b) Go Back

c) None

28.Statement used as last statement to terminate the program and return control back to IMS?

a) Stop

b) Goback----------> ANS

c) Stoprun

d) exit

29.Max. Of secondary index in single ims db

a) 1000

b) 100

c) 500

d) 750

30.Max.no of data area in symbolic check point is

a) 8

b) 7

c) 6

D)5

31.All files used for checkpoint and restart must be

a) Related to any IMS database files

b) Related to only GSAM database files

c) Related to HDAM & GSAM database only

d) Related to HSAM &GSAM database only

32.What is the function code with which the GA status code is issued by IMS?

a) GN

b) GHNP

c) GHU

d) GU

33.Status code for successful call ----------> Spaces

34.Maximum number of bytes for function code ----------> 4 byte

35.Various modes of processing – BMP, MPP, Batch DL/I

36.Command code which is used to reserve room in SSA for a command code

Null command code (-)

37.GN or GNP calls that cannot be satisfied for a particular parent but can be satisfied further in database under a different parent

a) F and L

b) D and V

c) D and N

d) U and V ----------> (May be ANS)

38.HDAM database consists of single dataset-→TRUE

39. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?

a) segm

b) Segment

c) DBDGEN

d) PSBGEN

40. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the

Listing of PCBs in the entry statement (t or f)

41. An IMS program performs insert operation on a database into segment with no key field. What is the insert rule which indicates that new segment are inserted at the end of the twin chain?

A) any

b) Here

c) Last

d) end

42. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity (t or f)

43.. Where is the randomizing module name specified for HDAM database?

a) PSB

b) ACB

c) PCB

d) DBD

44. What is the language interface module (DFSRRC00) used for?

IMS is given control first by invoking this module

45. More than one purpose by dynamically modifying SSA

a) Null command code

b) F

c) U

d) V

46. Access from dependent to dependent or root to dependent in database is always via pointers in HDAM

47. Sequential retrival of the data from IMS db?

a) GU

b) GU with SSA

c) GN

d) GU with no SSA

48. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls?

CMPAT=Y

(Same question like this) which parameters is coded during PSBgen to generate 10 PCB which needs to be used with CHKP, XRST calls?

a. CMPAT = N

b. CMPAT = Y

c. DBRC = Y

d. DBRC = Y & CMPAT = N.

49. Db record in IMS defined as

a) A root segment occurrence with all direct child segment occurrence

b) All occurrence of root segment with dependent segment occurrence

c) Only root segment with all dependent segment occurrence

d) A root segment occurrence with all dependent segment occurrence

50. Correct regarding GH retrival call.

a) Get hold retrival call program to issue GNP call in succession to it

b) Get hold retrival call program to issue DLET call in succession to it

c) Get hold retrival call program to issue REPL call in succession to it

d) Get hold retival call may not required program to issue DLET or REPL call in succession to it. If any other call is issued effect of get hold is nullified and treated as simple get call.

51. Match PROCOPT parameter

G 1. Enable exclusive use of segment

I 2. To add data

R 3. Access segment read only mode

O 4. To update segment

E 5. Read without integrity pgm processing

52. True about PCB mask parameter in IMS call

a. PCB mask is a first parameter required in IMS call

b. PCB mask paramete is included in the call even if programm access only one PCB or more than one

c. It is required in the call only if programm access multiple PCB's

d. It is required only when one PCB is accessed by IMS programm

53. Invalid get hold call

a. GHP

b. GHNP

c. GHN

d. GHU

54. Segment in an IMS DB can be secured for specific operations through

a. Program

b. DBD

c. PSB

d. PCB

55 . At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the program, a GNP call as well will accomplish same result.

a. True

B. False

56. Not a valid syntax for command code in IMS call

a. ward *PD

b. ward *D(ward no = 4)

c. ward *D

d. ward *D wardno = 4

57. GUBB & GHUB are used to retrieve a specific segment occurrence independent of current position within DB qualified SSA identifying each hierarchical level are normally provided. What happens when there are missing levels without qualified SSA in the call?

a. unqualified SSA may be assumed for missing levels

b. current control block into available for missing levels can be used

c. always returns first segment in DB that satisfies qualification

d. missing levels are not permitted

58. After the segment is accessed with a GET hold call, prior to a replace call user can modify

a. all field data within segment

b. any of the sensitive field data in segment except sequence field ----------> ANS (not sure)

c. entire segment data can be modified and replace in DB

d. segment entirely modified and written since replace is required to DEL & INSRT

59. PROCOPT = K in PSB ----------> allows key only sensitivity

60. PCB has variable portion of PCB.

a. segment name

b. segment level.

c. concatenated key area

d. DBD name

60. Nth position os SSA definition contains a left parenthisis to identify call as qualified SSa call. Correct value of n.

a. 7

b. 8

c. 10

d. 9

61. What are calls for which an IO pcb req calls.

a. CHKP & XRST

b. CHKP & XRST. INQY, SETS &sys service calls

C. only SSC

d. CHKP, XRST,UPDt.

62. Hosp- ward- patient

a.Qualified by GU by GN

63. IRLM is delivered as part of IMs production. How IRLM used for IMS Env (check box)

a. SYSplex

b.z/os

64. . HIDAM DB is made of 2 database main DB & index.what type of DB are used for dese:

a. Both VSAM & KSDS

b. I is VK & M in VE or 0.

c. I is VE & M in VE

d. I is VE & M in Vk

65. Parameter DBRC=Y is used with CHKP& XRST calls. ---→False

66.. HISAM stores root sgment & many dependent segment as possible in-

a. KSDS & fd primary & one rd low rec in second KDS

b. KSDS & OSAM

c. QSAM & OSAM

d. KSDs & ESDS

67. Logical relation between two segmnts is defined in

a. PCB

b. Database record

c. logical seq block

d. IMS DBD

68. HDAM databases consists of a single DS (Check box)

a. VSAM/ESDS OR OSAM

b. VSAM/KSDS OR OSAM

c. DS- Root adressable- one sd low

d. root adressable - root segment occur- dependent

69. . always input from one GSAM DB & o/p to another GSAM DB

a. true

b. false

70. PCB mask parm used in IMS call?

true or false

71. Function code- GA staus code is issued by ims.

a. GN ----------> ANS

b.GHU

c. GHNP

d.GU

72. What are the fields NOT used by the IMS in PCB mask associated with GSAM Database?

a. Key feedabck area

b.segment level number

c.segment name

d.number of sensitive segments

73. I-O PCB normally used for

a.only for terminal Io

b.for terminal IO and some DB calls like CHKP, XRST and LOG

c.only for testing online programs

d.only for conversion to online from batch processing

74.)How can the output record tobe written in a GSAM database?

a.can write output record anywhere in the DB as per key sequence order

b.can write output record to the end of the DB

c.can write output record to as per Record Searching Argument(RSA)

d.can write output record to the beginning of DB

75. Various processing modes in IMS?

DL/I,MPP,BMP

76. Correct definition of number of segements field in PCB-mask defined in COBOL?

a. PIC S9(05) Comp ----------> ANS

b. PIC x(04)

c. PIC 9(04)V 99

a. PIC A(04)

76. An application program issued an IMs call and retrieved to expected data from the segments of DB, what is the name of the area that contains key of the last segment encountered satisfying the field of the call and indicating the details of the path of the call?

a.SSA

b.function code

c.key feedback area

d. PCB mask

e. PSB mask

77. While coding PCB in a program , which field indicate the level of segment that is just processed?

a.DL/I-SEQ

b.status-Code

c.PROC- option

d.SEG-LEVEL

78. Control blocks for IMS-DB environment----------> DBD,PSB,ACB

79. which of the below combination of command codes is used to allow the program to process multiple segments using a single call?

a.C and N

b.D and N

c.F and U

d.D and U

80. when involving CHKP or XRST function in program, the PCB must specified should be_____

a.Related to DB-PCB followed by IO-PCB

b.Related to both DB-PCB's and Io-PCB specified in mixed manner

c.Related to only a single IO-PCB

d.Related to IO-PCB followed by DB-PCB

81. Which of the below is correct definition of key length in the PCB mask data structure in COBOL?

a.S9(04) Comp

b.S9(07) Comp

c.S9(08) comp

d.S9(05) comp ----------> ANS

82. Always input taken from one GSAM and output written in another GSAM - True/ False

83. Which of the following is NOT a valid syntax for coding Command code?

a.W*D

b.W*D(WARDNO=04)

c.W*PD

d.W*D WARDNO=04 ----------> ANS

84. AC,AI,DA,GF(match the following)

a.Calls has SSA with hierarchial error-AC

b.specified segement not found all Get calls-GE

c.Sequence field is changed to REPL-DA

d.error while opening DB all calls-AI

85. HDAM DB consists of a single dataset

a.which is VSAm /ESDS or OSAM

b.Root addressable area contains the root segment and all its dependent segment occurances

86. GSAM cant use conactenated Datasets- true/False

87. key field of a segment starts at Pos-1 - True / False

88. AC, AI, DA, GE status codes ---------->

AC- hierarchical error on insert/get call,

AI-error opening the database

DA - REPL/DELT attempted to change seg key field,

GE-segment not found

89. IMS system log contains before/after IMG, restart IMG-→TRUE

90. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?

a) segm b) segment c) DBDGEN d) PSBGEN

91. In IMS database, a segment has to be defined in such way that the segment is data sensetive and application can retrive the segment but cann't delete or replace the segment. PROCOPT=?

G

92. What do we understand from uni-directional logical relationship in logical database?

Links 2 segment types (Logical child and parent) in 1 direction

93. ISRT call is of two types of operations 1. For initial load 2.To add new segements

a.L for initial load & G for adding new segments

b.L for initial load & G for adding new segments

c.LS for initial load & A for adding new segments

d.L for initial load & I for adding new segments

94. Hospital - ward- patient

a.Series of GN calls

b.Qualified GU call followed by GN call till EOP encountered

c.qualified GU call followed by GNP call

d.series of GNp calls

95. Which DB call is correct for DLI job?

---->CALL 'CBLTDLI' USING CALL-FUNCTION,

DB-PCB-MASK,

IO-AREA,

SSA1,

SSA2

96. In an XRST call, the non-spaces in IO-Area indicates the _____.

---->Restart of the Program

97. A segment without parent is called a _____.

---->Root

98. All occurrences of different segment types under a parent are called as _____.

---->Siblings

99. Response to solve the user abend U0826 (IMS unable to open index database)

A) DBD COMPILED OUT OF SEQUENCE;

B) MISSING DD FOR IMS;

C) MISSING REGION FOR MVS;

D) GENERATION OF DB HIDAM WITHOUT PARAMETER DCB DSORG=IS.

100. Access from dependent to dependent or root to dependent in HDAM database is always via _____ in HDAM

--->Pointers

1. Reason for code U0853?

a.the PSB used by the program is invalid or corrupted

b.using a wrong DB

c.After a reorg, use Old DB with the new DBD or vice versa

d. PSB needs to be restarted

d.Using corrupted DB---------->ANS

2. IMS is heterogenous?---------->TRUE

3. IMS system log contains before/after IMG, restart IMG----->TRUE

4. Normally parentage is established at lowest segment accessed for GU & GN calls,that parantage remains in effect for subsequent.----->GNP calls

5. Get next('GNBB')---retrieves the next segment in the

hierarchy as defined in the PCB. To determine this next segment, DL/I relies on

the previously established position

6.for a segment to be deleted,which procopt is used? --- “D”

7. If after issuing a GH call, the program determine that it is not neccessary to change or delete.The retrival segment what will happen to segment field by previous GH call?--->

Application program can proceed further without releasing the hold.Anycall issued willl nullify the effect of hold(i.e hold is released)

8. user abend U3303, U0007(Message text varies). SB37(abend for GSAM file processing), U0688, U0777, U0853.

9. which unit data transfer DL/I to application program?

a.segment data-------- ANS

b.data of fields

c.logical data

10. U0136 - A previous program abendhas hung up the IMS region.

11. U0844 abend--No space is available in the database, or the data set is defined as DSNAME=NULLFILE or DD DUMMY

12. InvOICE segment has been defined under CUSTOMER segment.The application require to access the INVOICE by GN or GNP call in order to the most recent invoice data first for a specified customer.How will you achieve in IMs?(DOUBT)

a.specify invoice data as a sequence field in invoice segment under a specified customer-?ANS

b.specify invoice data as a negative number 2's complement

c.specify invoice data in 2's complement form and specify it as a sequence field

d.store the invoice data in such a way that the most recent invoice is stored always first in the database under given customer-→ (answer in some other ques)

13. ISRT call is of two types of operations 1. For initial load 2.To add new segements

a.L for initial load & G for adding new segments

b.L for initial load & G for adding new segments

c.LS for initial load & A for adding new segments

d.L for initial load & I for adding new segments----------
>ANS

14. GU call is issued which has no SSA's used

a.IMS assumes a fully qualified call & retrieves the data from last segment of DB record

b.IMS assumes a fully qualified call & retrieves the data from all segments of entire DB keeping prior hiearachy

c.IMs assumes a fully qualified call & retrieves the data from all segments of DB record

d.IMS assumes SSA for root segment & retrieves the first occurence of root segment---------->ANS

15 DBD specifies (check box)

a.HDAM randomizing module---------->ANS

b.access method used---------->ANS

c.name of physical dataset which hold the databases---------->ANS

d.Characterisitics of dataset to DBMS---------->ANS

16)HDAM databases consists of signle dataset (checkbox)

a.which is VSAM/ESDS or OSAM-----?ANS

b.Not addressable contain root segement & all its dependent segment occurence

17)if after issuing a get hold call, the pgm determine that it is not necessary to change or delete the retrieved segment.what will happen to the segement field by previous GH call?

a.Segment remain in locked condition & has to be released explicitly by RLSE call before it becomes available for access for other call

b.Pgm can proceed further as its a normal GET call without hold----------->ANS

c.Any other call executed after GH on the same PCB will be releasing the HOLd----------->ANS

d.Any other call executed on any PCB or the DB will be releasing HOLD condition

18. Series of GN calls. How many retrievals has to be move down in the level?

A) GA, GK, GB

B) GA ONLY

C) GK ONLY

D) GB ONLY

19. IMS DB and IMS TM have to be ordered together always(True/False)

Ans: False

20. Segment A

Segment B

Segment C

Segment D

Segment E

A GU call was issued for the segment D with P command code mentioned for segment B. Then GNP call is issued. Which are the segments retrieved?

Ans: Segments C, D, E

21. Hospital-→Ward-→Patient is the hierarchical structure. To retrieve a particular Patient record(PATIENT001),we should use

Ans: Full qualified Hospital, Ward and Patient SSA.

22. Hospital-→Ward-→Patient is the hierarchical structure. A fully qualified GHU call was issued for the Patient segment. Then to delete the particular Patient segment, we should use a DLET call with

Ans: No SSA

23. Multipositioning using PCBs. SKILL--→NAME is the hierarchical structure. Move the name segments from the SKILL(PROJLEAD) to SKILL(PROJMGR).If positions are established at 2 positions using 2 PCBS, which call will perform the required functionality?

Ans: GU PCB1

SKILL(PROJLEAD)

GU PCB2

SKILL(PROJMGR)

GHU NAME

ISRT PCB2

DLET PCB1

GHU NAME

ISRT PCB2

DLET PCB1

24. Which statement defines the fields sensitive to application program and those fields should be the ones defined in the FIELD statement in the DBD control block?

Ans: SENFLD

25. For a GSAM database, the address of the retrieved segment will be stored in

RSA

Key feedback Area (DOUBT)

Number of Sensitive segments

Reserved area for IMS

26. A field in IMS segment indicates?------à data or grouping of segment data(DOUBT)

27. HISAM is specified for?

processes data sequentially, but has an index that enables you to directly access records in the database.

28. DBD specifies?

a) Name b) Access method c) characteristics…

29. Normally at lowest segment accessed once parentage is established. Parentage remains in effect for subsequent.GNP Calls

30. Meaning of batch back out

a) Batch backout unit operates as normal DL/I batch job and uses PSB whose changes are backout

b) Involves read of log dataset to backout all database updates after abnormal termination

c) Other can run against system database between failure and backout

d) Done using the before image data from log to update database segment

31. NO. of segment field in PCB mask.----------à8

32. What will happen when GU call is issued between GHU and DLET call?

a. Hold can be nullified by GU call and segment cannot be deleted

b. The first occurrence of the segment can be deleted

c. The last occurrence of the segment can be deleted

33. Initial code to add new segments.

Within the IMS Database, there is only one occurrence of each segment type, but there can be an ..... After each DL/I call, the DLI stores a status code in the PCB. .... The ISRT function is used to add a new segment to the database. ..... it does not have any significance, as GU calls fetch the first segment occurrence by default.

34. All patient of ward in HOSP001 segment of hospital has to be retrieved

a. series of GN call

b. Qualified GU call followed by GNP call

c. Qualified GU call followed by GN call till end of database encountered

d. series of GNP calls

35. DASD to IMs buffer. What is unit of data transfer?

a) Segment data

b) logical record

c) control interval VSAM

d) control interval QSAM

36. IMs call successful retrieval GSAM place address of record that is returned to program PCB mask field?

A) RSA

B) key feedback area

c) key feedback area length

d) NO. of sensitive segment (4 byte)

e) reserved for IMs area (4 byte)

37. Program running in MPP region can access only

a--IMS as well as DB2

b--non IMs data files

c--IMS & non IMs

d---IMs database

Note: A Message Processing Program (MPP) is an online program that can access full-function databases, DEDBs, MSDBs, and DB2® for z/OS® databases. Unlike BMPs and batch programs, MPPs cannot access GSAM databases. MPPs can only run in DB/DC and DCCTL environments.

38. IMs program has to replace all retrieved segments after issue of an IMs call Get hold path allowed by

a---DELt call with unqualified SSA

b---DELt call with full qualified SSA

c---replace call with no SSA

d---replace call with fully qualified SSA

39. XRST call try to reposition all DB to the position that were held when the last checkpoint is taken. How can these be achieved in IMS?

This is done by including each PCB and PCB key feedback area in the checkpoint record.

Issuing XRST causes the key feedback area from the PCB in the checkpoint record to be moved to the corresponding PCB in the PSB that is being restarted.

Then IMS issues a GU call, qualified with the concatenated key (using the C command code), for each PCB that held a position when the checkpoint was taken.

40. Which is correct?

a) DBD is a control block in IMSDB which describes fields in root segment

b) DBD is a control block in IMSDB which describes physical nature of DB

c) DBD is a control block in IMSDB which describes logical nature of DB

d) DBD is a control block in IMSDB which is not mandatory

41. Valid PROCOPT parameter for GSAM

a) G, GS

b) G, GS, A

c) L, LS

d) All the option

42. An unqualified GN call always gets next segment in DB.

a) True

b) False

43. In update mode, status code of ‘bb’ and ‘II’ are expected status code

a) True

b) False

44. IMS program has to issue a call to retrieve segment.
HOSPITALàWARDàPATIENT

a) Fully qualified

b) Only ward & patient are qualified SSA

c) Only patient segment related SSA is to be qualified & the rest unqualified

d) Unqualified call

45. Hospital database, the call is coded CALL CBLTDLI using GU…….
PATIENT SSA?

a) The data of the patient 1 in 1st ward segment in 1st hospital

b) The data of the patient 1 in all ward segment in all hospital

c) The data of the patient 1 in last ward segment in 1st hospital

d) The data of the patient 1 in all ward segment in 1st hospital

46. Correct type of SSA to be used in case the program to retrieve the data of any occurrence.

a) Unqualified SSA

b) Partially

c) Fully

d) Call with no SSA

47. Data management access method performs necessary i/p request to place _____

Record data segment in a work area allocated

Record data record in a work area allocated

48. What type of segment search argument (SSA) required to be used for sequential processing of all segments in ascending order-

Answer: Qualified SSA command-GS

49. HOSPITAL database, HOSP->WARD->PATIENT. An IMS call issues DLFT function code on a segment PATIENT. The GET HOLD call before DLET call does not use D command code. What type of SSA to be used in this DLET call?

Answer: GHN (Get Hold Next)

50. A fully qualified GU call to retrieve PI in hospital

Answer: GU HOSPITAL (HOSPNAME = MACNEAL) WARD (WARDTYPE = INTENSIVE) With Fully Qualified SSA

51. IRLM is part of IMS product. How IRLM is used for IMS?

Internal Resource Lock Manager (used to maintain lock on IMS resource)

52. AIB characteristics:

To communicate with IMS when an application program does not have a PCB address or call function does not use PCB

53. Parent segment-à SKILL

Immediate child à NAME

How to retrieve all the names of skill having value “engineer”

Qualified GU call (having key value ‘Engineer’) on SKILL Segment, then GNP call on NAME segment.

54. XRST call try to reposition all dbs to position that were held when last CHKP is taken. How can this be achieved?

Through checkpoint id

55. User abend code: U0844 (database is full).If it occurs what solution you propose?

Run db backout utility and re-create the db allocating more space.

****

ABEND CODES:

1. U0100? ----------> Bad Checkpoint
2. U3303? ----------> database stopped
3. U0688

a. IMS ctrl programm is done and must be restored before any BMP processing done

b. DB has been in stopped condition

c. Region parm on a batch job is too small for program to execute

d. DB contention and hence operator cancelled

4. U0047 abend.(CHOOSE MULTIPLE OPTIONS)

a. one of the DB PCB faild to obtained DBR (authorization for DB)

b. bring down DB using IMS command/DBR DB(data base name)

c. wait till contending job completes

d. restart job which failed after starting DB

e. first stop DB by using IMS command/STOP DB (DB name) & then start DB/start(DB name)

5. Reason for code U0853? (DOUBT)

a.the PSB used by the program is invalid or corrupted

b.using a wrong DB

c.After a reorg, use Old DB with the new DBD or vice versa

d. PSB needs to be restarted

d.Using corrupted DB

24)U0136 - A previous program abend has hung up the IMS region.

24)U0844 abend--No space is available in the database, or the data set is defined as DSNAME=NULLFILE or DD DUMMY

U3303 ------> database stopped

U0688---->IMs not active,job cancelled

U0100----Bad checkpoint/ IMs control region ended abnormally while attempting to build a type X'47' log record.

U0136- A second IDENTIFY request was issued from the same dependent region. This is probably an IMS™ system error.

U0853- For a HIDAM, HDAM, PHDAM, or PHIDAM database, in attempting to locate a root segment, the segment returned either did not have a segment code of 1, or (for HIDAM or PHIDAM) had a different key value than the key value in the index pointer segment. This abend can occur if the database is being processed using a DBD from a DBDLIB or ACBLIB that is different from the DBD under which the database was most recently loaded. This abend may also be returned when doing a GHU on a database from which all segments have been deleted.

U0475 - a java application program attempted to run as an ims batch job

```
U0002 - IMS control region down

          - This indicates that a program has filled the region and
            the region has abended. It may be: 1) A program running in
            the same region as a program that fills a region; 2) Your
            program which has filled the region (either because of a
            program problem like infinite looping or because you have
            not taken a checkpoint for a long time); or 3) A bad
            version of IMS is in place (especially likely if it is
            experienced on a Sunday).
U0047  -  A  DL/I  or  DBB  batch  region  failed  to  obtain  a  database
authorization
U0100  - Bad checkpoint
          - Especially after a U0777 restart using the wrong
            checkpoint
          - Use a previous checkpoint for the restart
U0136 - A previous program abend has hung up the IMS region
            initiator have MTO stop and start the initiator that the
            job failed in.
U0144 - BMP abended because there were too many BMP's running at
            one time.  Restart when there are fewer BMP's running.
U0475 - Usually occurs when you attempt a checkpoint call without
            doing a restart call first.
U0476 - IMS has found a problem between your PCB and your
        program's storage areas for the PCB.  Some items to check
```

```
        are:
 |           - The PSB language specified in the PSB is not the same
 |             as the program language.
 |           - The number and order of the PCB's in your PSB does not
 |             match the the number and order in your program.
 |           - The Address of the PCB's in your program has been
 |             overlaid in your program.
 |           - In a COBOL program, the LINKAGE SECTION must have a 01
 |             level coded for each PCB in the PSB.
 |
U0688 - IMS control program is down and must be restarted before
 |          any BMP processing can be done.
U0777 - Data base contention, operator cancelled
          - Restart at last 'unique' checkpoint to avoid duplicate
            check point on restart.
U0826 - IMS was unable to open an index data base data set.  Check
 |          for:
 |           - The index data base data set exist.
 |           - The index data base data set name is correct
 |           - The index data base data set DDNAME is correct
 |           - All index data base data set DDNAMEs are present and
 |             correct
 |           - That you have a buffer large enough to hold the data
 |           - Check for a "DFS730I" error message. There will be
 |             additional information with this message.  Use the
 |             reason code given and look into the IMS/ESA Messages
 |             and Code manual for more info.

U0844 - This is a data base full error.  Check the DBDLIB that you
 |          using to make sure it is the correct one.  Also check on
 |          how many records you are adding/inserting.
U3303 - This implies that the data base were not available for
 |          use. Check to see that the databases have been started.
```

(explore this link http://mainframematerials.blogspot.in/2011/01/ims-abend-codes.html) -> CONTAINS THE SOLUTIONS FOR ABENDS EXACTLY

1. Characteristics of GSAM applicable for BSAM/QSAM db? -----[Symbol] correct
   a) Symbolic checkpoint call allowed
   b) Symbolic checkpoint call not allowed
   c) Fixed length record allowed
   d) Variable or undefined record allowed
   e) Restart from checkpoint allowed
2. status code of AK? SSA contains invalid field name or Field name specified on SSA is not defined in the DBD
AK - The field name does not match the name in the DBD.
AD - The function code is invalid
AJ - SSA is coded incorrectly
GB - End of database reached
GE - No segment was found which matches the specific criteria.
GA - During unqualified sequential processing, IMS crosses the higher level of hierarchy.
GK - During unqualified sequential processing, IMS moved to the different segment but at the same level.
AI - Open error
II - An attempt to insert a duplicate.
DA - An attempt top modify the key field during replace/delete call
DJ - An attempt to replace or delete the segment that was not held.
LB- attempt to load a segment that already exists.
LC- attempts to load a segment out of sequence.
LD- attempts to load a segment whose parent does not exist.
LE-hierarchical sequence in dbd that does not match with the segments to be loaded.
3. User abend code U0100? Bad checkpoint, User error (A type X '47 'log record can't be created because change in db list of BMP exceeds the capacity
4. Qualified GN & GNP call return code 'GB' indicates? End of db was reached on GN call
5. Component of IMS DL/I call provide information to segment to be retrieved? SSA
6. Command code that IMS call not to replace particular segment? C,F,N,D N
7. Command code to issue path? V,L,P,D D
8. Coding standard for multiple positioning for PCB? POS= M
9. Maximum number of segment type in db restrict to? 255
10. In DBDGEN TYPE=X denotes which datatype? Hexa decimal

Parameters	Description
Name	Name of the field, typically 1 to 8 characters long
Bytes	Length of the field
Start	Position of field within segment
Type	Data type of the field
Type C	Character data type
Type P	Packed decimal data type
Type Z	Zoned decimal data type

Type x	Hexadecimal data type
Type H	Half word binary data type
Type F	Full word binary data type

11. In DBDGEN suppress the listing of matching instructions? Print NOGEN
12. Type of segment for REPL function applied? Fixed and Variable segment
13. Status for load same segment twice? LB

- LB - When you try to load the same segment twice i.e. segment already exists
- LC - The segments being loaded are not in their Hierarchical sequence i.e. key values out of sequence
- LD - No parent for the segments being loaded. You cannot load a dependent segment until its parent has been loaded.

- LE - Segment types out of sequence. For example: - If you tried to load a facility segment before a patient segment.

14. Status code GK? Diff segment level at each segment type

- GA - Moved up in level to retrieve the segment
- GK - New segment type at the same level is retrieved
- GB - End of database is reached
- BLANK - Segment successfully retrieved
- GE - Segments not found following the current position

15. U3303? (An IRLM failure or unavailable data or database stopped) or (database down or stopped)
16. Name the process of logical db by creating control block by PSB? PSBGEN
17. **Characteristics of IMS batch environment?**

a) Batch address space not connected to IMS online control segment
b) Can access only full function database such as HSAM, HDAM etc and not fast path database as DEBD, MSDB etc
c) Not possible to access full function database that are online to IMS online control segment
d) All IMS code used by application resides in batch address space where program running
e) Batch address space opens and reads IMS dataset directly

18. A field in IMS segment indicates? Sequence key field or search field using which segments can be retrieved with qualified SSA
19. Access method used for HISAM? VSAM or hierarchal indexed segment access method
    - The access methods that HISAM can use are VSAM and OSAM
    - Direct access of record by root keys
    - Sequential access of records
    - Sequential access of dependent segments
20. HISAM is specified for? Sequential or direct access to roots and sequential processing of dependent segments
21. AIB defined in working storage of application program?(t or f) true
22. Status code check after every DL/I call? (t or f) true
23. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls? Code [COMPAT=YES] to generate IOPCB in PSBGEN
24. ----- SSA in single IMS call --[Symbol] 15
25. How access secondary DB in IMS to?
    a) By using XDFIELD field
    b) By defining PROCOPT=indexed db name in pcb
    c) By defining Procesq = index in pcb
    d) By defining Procesq = indexed DB name in pcb
26. ------ to select DB records in sequence other than defined by key field a) Secondary index
27. Unqualified SSA space is in ---- th field a) 9th field
28. How to identify Logical child in db?
    a) L-child in psb
    b) L-child in pcb
    c) L-child in Linkage section
    d) L-child in Dbd
29. False for HDAM access method?
    a) Cannot have non unique root segment key
    b) Fast access to root
    c) Reuse of space
    d) Quick access to segment
30. In DD statement which is optional in executing DL/I job?
    a) Proclib
    b) Ims
    c) DFSRESLB
    d) IEFRDER
31. Where to define IO-PCB
    a) Psb b) Linkage section c) DBD d) PCB

32. Types of fast path DB
Ans: DEDB, MSDB
33. DB access which are offline for ----- mode of process
a) all b) MPP c)BMP d) DL/I
34. Optional parameter IMS call
a) SSA b) IO-area c)Pcb mask
35. Status call will not result in REPL call
a) DJ b) DA c) II d) RX
36. Type of CHKP call in MPP
a) both b) none c) symchkp d)basic chkp
37. In xrst call non space in program is indicated at---- position
a) 12 b) 9 c) 10 d) 6
38. GK status code possible in ------- call a) Qualified GN b) Unqualified GN c) Unqualified GU d) qualified GU
39. Which statement is correct in DLI jobs? CALL 'CBLTDLI' USING DLI-GU
PCB Mask
Segment I/O Area
[Segment Search Arguments]
40. Procopt option for 'LS'? ---[Symbol] Load in ascending Sequence
41. -------- to logically end Ims application by releasing resources from IMS
a) Stop Run b) Go Back 3) none
42. Max. of secondary index in single ims db
a) 1000 b) 100 c) 500 d) 750
43. Sibling segment define two or more segments having a common parent
44. Rules parameter is used in
a) DBD b) PSB c) ACB d) PCB
45. Role of ims transaction manager?
Process I/P msg from a variety of source
Process O/P msg from application
Provide queuing mechanism for handling these msgs
Provide efficient txn processing for IMS db and db2
46. ims call to reset PCB Pointer?
a) GN b) GNP c) GU d) GHU
47. Max.no of data area in symbolic check point is
a) 8 b) 7 c) 6 d) 5
48. What do key feedback area in PCB mask represents? Concatenated key of the retrieved segments in the hierarchal path
49. True about PCB mask parameter?
a) PCB in its first parameter
b) Required when 1 PCB access
c) Included in call even if program access only 1 pcb or more than 1 pcb
d) PCB mask parameter is required only in call if program access multiple PCB
50. DL/I calls can execute directly within DB batch using JCL? True
51 .GU call issued when no SSA issued.What happen at the time of retrival?
a) It retrieve at the first occurrence of the root segment
b) Ims assumes fully qualified call and retrives data from all
c) Ims assumes fully qualified call and retrives data from last segment
d) Maintain proper hierarchy
52. In IMS DL/I program execution.DL/I acts as…..Which are applicable?
a) Interface for file operation and database operation
b) Change in DL/I system is stored at DL/I log(Prasad) (Doubt)
c) Application program interface with one or more DL/I
d) Seen in region/regions
53. IRLM is part of IMS product. How IRLM is used for IMS? Internal Resource Lock Manager (used to maintain lock on IMS resource)
54. Status code of AC, AI, DA, GE
AC - Hierarchical error in SSA
AI - error while opening db all calls

DA –sequence field is changed to repl
GE- Segment not found

55 .At XRST function,GE status code returned? GU for the concatenated key was not fully satisfied

56. In nth position of SSA contain left parenthesis to identify Qualified SSA call.What value of 'n'?
a) 10 b)8 c)9 d)7

57. What is the INSERT rule which indicates new segment that insert at beginning…
a) Here b)First c)Any d)Last

note:- insert at beginning :- first
insert at end :- last
insert at mid with some calls :- here

58. Success – space

59. User abend code: U0777 Application pgm terminated abnormally because potential resource was in deadlock condition

60. Always Input taken from GSAM and output is also from GSAM? false

61. Segment 'Customer' is the direct parent to the child segment 'Invoice'. Here how to retrieve most recent invoice data?
a) store Invoice in data in which most recent at first segment
b) specifies invoice data at 2's complement

62. When invoking Checkpoint/Restart function,PCB mask specified should be,
a) Related to database PCB by IO-PCB
b) related to IO-PCB followed by database PCB
c) related to both IO-PCB and database PCB
d) only 1 IO-PCB

63. Batch backout:
a) Batch backout unit operates as normal DL/I batch job and uses PSB whose changes are backout
b) Involves read of log dataset to backout all database updates after abnormal termination
c) Other can run against system database between failure and backout
d) Done using the before image data from log to update database segment

64. IMS sets parentage at lowest segment.once parentage established,Parentage remains in effect for subsequent:
a) GU b)all c)GN d)GNP

65. Correct PCB coding for multiple positioning for PCB?
a) PCB type=db,Name=Hospital,Position=Multi
b) PCB type=db,Name=Hospital,Position=M
c) PCB type=db,Name=Hospital,Position=Multiple

66. Type (fixed/variable) of segment for which REPL call applied?
a) Variable length segment only
b) fixed/variable
c) Fixed not more than 500
d) Variable

67. Features of HIDAM Random and Sequential access to DB records

68. Format of XRST call…in which I/O-area specifies…
A 1- to 8-character extended checkpoint ID.
A 14-character "time stamp" ID from message DFS0540I, where:
- IIII is the region ID.
- DDD is the day of the year.
- HHMMSST is the time in hours, minutes, seconds, and tenth of a second.

The 4-character constant "LAST".

69. IMS application need to exercise control over GN/GNP call that can't be satisfied further in database Under different parent
a. U and V
b. D and N
c. D and V
d. F and Z

70. AIB characteristics: To communicate with IMS when an application program does not have a PCB address or call function does not use PCB

71. Function code with which GA status code issued by IMS

a) GN b) GHU c) GHNP d) GU

72. In HIDAM segments tied together without need of segment physically adjacent. True

73. After successful retrieval call in IMS, which position is established?

a) At immediately after segment occurrence that retrieved
b) At segment retrieved
c) First occurrence
d) Prior to segment

74. Why do we say IMS based on open standards?

a. DL/I supports ims database
b. Supports Java for application development
c. Xml[Symbol]supports transaction document
d. Unix/linux[Symbol]supports database implementation

75. To find how many times the retrival moved down in level.Find combination of codes (doubt)

a. GA,GK,GB
b. GB
c. GA
d. GK

76. D command code is only one allowed on DLET call False

77. ----------code from option to reserve room in SSA for command code (doubt)

a. U
b. D
c. V
d. NULL ---------->ANS(jee)

78. User abend code: U0844 (database is full).If it occurs what solution you propose?

Run db backout utility and re-create the db allocating more space

79. IO-PCB normally used for: checkpoint / restart

80. After successful retrieval call in IMS, GSAM places the address of record that is returned to program in PCB mask field (Prasad)

a. RSA
b. KFA
c. KFBL
d. Reserved for ims area

81. Parent segment-[Symbol] SKILL
Immediate child [Symbol] NAME
How to retrieve all the names of skill having value “engineer”

82. Valid function code used after Get-Hold call

a. GU – Qualified SSA at skill
b. GNP - Unqualified SSA at name
c. DLET
d. GN - Qualified SSA at skill, Unqualified SSA at name

83. Correct DSDGEN to suppress machine instruction.

a. Print NoList
b. Print NoGen
c. Noprint List
d. Noprint Gen

84. Which command can perform function of 'U' command in high level SSA
   a. F
   b. V
   c. D
   d. N

85. Invalid GET HOLD call:
   a. GHU
   b. GHN
   c. GHP
   d. GHNP

86. What function code to perform ims call for random retrieval?
   a. ***GHN***
   b. ***GN***
   c. ***GU***
   d. ***GNP***

87. IMS program has to replace all retrieved segment after issue of IMS call.
   a. Get Hold path call followed by replace call with no SSA
   b. Get Hold path call followed by delete call with unqualified SSA
   c. Get Hold path call " " " by Replace call with qualified SSA
   d. Get Hold path call '''''''''''''''' by Delete call with qualified SSA

88. Characteristics of HISAM
   a) Parent and child will be stored in physical sequence (Prasad)
   b) Overflow area maintain for addition of segment
   c) DASD space is reusable when segment are deleted
   d) Pointer are used when dependent segment stored in overflow area

89. Program running in MPP region can access only
   a. ***IMS database***
   b. ***Only non-ims database***
   c. ***IMS as well as DB2***
   d. ***Non ims data files***

90. SB37 abend indicates:
   a. ***Out of space***
   b. ***Change secondary all spaces***
   c. ***Vol=ser=xxxxx***
   d. ***Wrong record format in jcl and disk has input-output failure***

91. Segment in ims d/b can be secured for specific operation through…
   a. PCB
   b. Program
   c. DBD
   d. PSB

92. IMS batch environment feedback

93. What is the unit of data transfer from DASD to IMS Data Buffer?
   a. Data of field from one or more segments
   b. Control interval in VSAM/block in QSAM
   c. Segment data
   d. Logical record

Note:-- both option a ,c is correct ,any one wll come in exam

94. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?

a) seg
b) segment
c) DBDGEN d) PSBGEN

95. Option that is correct regarding ssa coding.

a) first field in ssa are of 8 bytes
b) left padded with space
c) right padded with space
d) right padded with * and call cannot execute

96. While coding PCB in a program , which field indicate the level of segment that is just processed?

a. DL/I-SEQ
b. status-Code
c. PROC- option
d. SEG-LEVEL

97. XRST call try to reposition all dbs to position that were held when last CHKP is taken. How can this be achieved?

Through checkpoint id

98. user abend U0100 occurs bcz.,

a) Bad checkpoint
b) abended due to too many BMP running
c) storage problem

99. Hospital -> Ward ->patient->doctor … GU call on Patient (fully qualified call).wht segment data retrived as result of call?

a) Patient only
b) Hospital only (I guess)
c) Hospital,ward,patient
d) ward and patient

100. Access from dependent to dependent or root to dependent in database is always via

a) Pointer
b) Index
c) physical positioning of segment
d) either physical positioning or

101. Functions of symbolic checkpoint call

a) Commit changes program has made to database
b) Establish places in programs from where program can be restarted it
c) To save as many as seven data area containing critical data which are restored when program is restarted
d) An XRST call with blank checkpoint Id is required to execute prior to CHKP call to indicate IMS that symbolic checkpoint is taken

102. Relation between PCB mask and PCB is created by listing of PCB in entry statement? TRUE

103. Reason for user abend U08553?

a) PSB is invalid/corrupted
b) Wrong database
c) After reorganized, use old database with new DBD or viceversa
d) PSB->restart
e) Use correct database

104. Where is the randomizing module name specified for HDAM database?

a) PSB
b) ACB
c) PCB
d) DBD

105. which parameters is coded chering PSB gen to generate 10 PCB which needs to be used with CHKP, XRST calls?

a. CMPAT = N

b. CMPAT = Y

c. DBRC = Y

d. DBRC = Y & CMPAT = N.

106. All files used for checkpoint and restart must be. select one:

a) Related to any IMS database files

b) Related to only GSAM database files

c) Related to HDAM & GSAM database only

d) Related to HSAM &GSAM database only

107. Correct regarding GH retrieval call.

a) Get hold retrieval call program to issue GNP call in succession to it

b) Get hold retrieval call program to issue DLET call in succession to it

c) Get hold retrieval call program to issue REPL call in succession to it

d) Get hold retrieval call may not required program to issue DLET or REPL call in succession to it. If any other call is issued effect of get hold is nullified and treated as simple get call.

108. Ideal ims call for segment retrival of data from ims database?

a) GU

b) GU with SSA c) GU with no SSA d) GN

109. Correct statement regarding gn call issued as a first call with no SSA unidirectional logical relationship is logical DB?

110. Segment A,B,C,D,E: GU call at D, Parentage at D, so GNP call will return E. True

111. Which function code in IMS used to get next record from database to update?

a) GHU b) GU c) GN d) GHN

112. What do we understand from uni- directional logical relationship in logical database? Access is one way or one direction

113. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the

listing of PCBs in the entry statement (t or f) True

114. GHU call followed by -> GU ->followed by REPL call in which all call use same PCB. what happen in this case?

a) Segment held by GU will be replaced

b) REPL operation not executed giving DJ

c) Segment held by GHU call will be replaced

d) Segment held by GU call will be bypassed giving DA

115. Gk status code

a) New segment type at same level when series of GN calls issued in program

b) End of database

c) End of root segment

d) Data retrival using GN call moved up in one level

116. Hospital [Symbol]ward[Symbol]Patient.Here how to retrieve PATIENT segment as?

a) Only Patient as qualified SSA and rest all as Unqualified SSA

b) retrieve as Fully qualified

c) only Ward and Patient as qualified SSA

d) any call

117. Not a valid syntax for command code in IMS call

a. ward *PD

b. ward *D(ward no = 4)

c. ward *D

d. ward *D wardno = 4

118. What is the language interface module (DFSRRC00) used for? IMS region controller program to access IMS db

119. Correct definition of key-length in PCB-mask data structure?

a) S9 (07) comp

b) S9 (05) comp

c) S9 (04) comp

d) S9 (08) comp

120. ACB?

a) ACB pre built/dynamically created for online application

b) Created for Batch appln
c) Combination of DBD + PSB
d) Created for online appln

121. DBD specifies?
a) Name b) Access method c) characteristics…

122. An application program issues delete call and the call violates delete. What status code to use?
a) DJ
b) DA
c) DX
d) RX

123. What are the implications of secondary indexes and logical relationships in IMS db? XDFLD, LCHILD

124. HDAM database consist of single dataset
a) Root AA contains root segment
b) Which is VSAM/KSDS/OSAM
c) Which is VSAM/ESDS/OSAM
d) Divided into RAA and OAA

125. Maximum no. of bytes that can be defined for a code in IMS call.
a.3
b.4
c.9
d.6

126. which environment used for running application which use symbolic checkpoint and restart call(Prasad)
a) MPP b) BMP c) Transaction BMP d) Batch environment

127. U0826 [Symbol] ***UNABLE TO OPEN INDEXED DATABASE DATASET. How to solve? (doubt)***
a) check with DBA
b) check with Index dataset database
c) check with dd name is correct or not
d) check buffer size large enough to hold data
e) check index database dataset name is correct

128. SSA containing one or more command code which have to be used for more than one purpose by .What is the correct command? NULL command code (-)

129. User abend: U0002 The ims control region abends, abnormally terminates, so it forces this abend for active dependent regions

130. IMS system log contains before/after IMG, restart IMG True

131. C ,V,---,N,U,F,D,P,Q,L
Ans:
a. Locate at the first occurrence[Symbol]f
b. Locate at the last occurrence-[Symbol]L
c. Retrieve this segment data into IO-area[Symbol] D(retrieve or insert a sequence of segment in a hierarchial path using a single call)
d. Not replace the segment[Symbol]N
Concatenated key in ssa--[Symbol]C
e. Enqueue this segment-[Symbol]Q
f. Maintain current position at this level-[Symbol]U
g. Maintain current position at this and higher level--[Symbol]V
h. Parentage at this level-[Symbol]p
i. Null command-[Symbol] ---

132. If program being restarted in either batch/BMP region and chkp log no longer reside in OLDS/SLDS, then justify solution

133. hosp[Symbol]ward[Symbol]Patient: To retrieve P0001 from w0001.what call to specify? Qualified by GU by GN

134. What is the unit of data transfer from DASD to ims data buffer? Segment data

135. AIB is in working-storage section. True

136. Which area in pcb mask provides information of all the segments that is retrived? Key feedback area

137. I have ims program to read and print data from ims database, to update the same program,

138. Which function code don't help in setting up parentage in case of sequential retrieval of data? GU and GHU
139. When qualified ssa gets terminated? When condition is met or EOF db is reached
140. Application environment from which IMS database can access,
a) IMS TM
b) CICS for Z/OS
c) Z/OS batch
d) Application running under TSO
e) Web sphere application server for Z/OS
141. U0475 - a java application program attempted to run as an ims batch job
U0777 – Application pgm terminated abnormally because potential resource was in deadlock condition
142. Ims issue delete call for the segment that has other dependent segment. what will happen? Segment and all its dependent gets deleted
143. Number of factors must be considered by DBD while designing in DBD. (CHOOSE MULTIPLE OPTIONS)
a. hierarchical relationships of the accessed segments and processing permissions on accessed segment
b. name and format
c. segment name
d. various field format
e. awareness of DB recovery control specified for DB
144. In IMS DL/I application program execution which of the following options are applicable? (CHOOSE MULTIPLE OPTIONS)
a. application could have interfaces for file operations and DB operations
b. application program may interface with one or more DL/I DB
c. pgm & DL/I are contained in separate program address spaces
d. pgm & DL/I are contained in single program address spaces
e. when data is changed, a record of the db modification is written on PL/I system log.
145. U0047 abend. (CHOOSE MULTIPLE OPTIONS)
a. one of the DB PCB failed to obtained DBR (authorization for DB)
b. bring down DB using IMS command/DBR DB(data base name)
c. wait till contending job completes
d. restart job which failed after starting DB
e. First stop DB by using IMS command/STOP DB (DB name) & then start DB/start (DB name)
146. Type of segment for which REPL function can be applied? (doubt)
a. FL OR VL
b. FL seg only
c. FL seg with seg length not more than 500 bytes.
d. VL seg only.
147. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS)
a. randomizing routine to locate the record
b. free space is generated when root segment is deleted with all it's dependent segment deleted
c. uses an index on the root key to locate record
d. free space when root segment deleted and dependent segment not deleted but marked as a deleted
e. results in the smallest number of synonyms
148. What does segment signify in ims db?
A) smallest unit of data that an application can retrieve from db contain one or more field
b) segment can be created with single field or combination of more field
c) segment can also exist without any field
d) segment is created with similar data items together
149. XRST can be used after previous abnormal termination of program
a) To restart from specific checkpoint ID
b) To restart from specific time/time stamp
c) To restart from last checkpoint ID & must be executed as last call in program
d) To restart from last checkpoint ID for BMP & execute as first call in program
150. Fundamentals of PSB are
a) specifies view of data that application wishes to process
b) PSB can be shared by different programs that have similar db processing required
c) PSB contains atleast one PCB for each DL/I db that application wishes to access

d) a program may use more than one PSB in single execution
e) A program can use one PSB in single execution
151. How indexing done for HISAM db
a) each HISAM record is indexed based root key
b) In HISAM initial loading of data is done on ascending key sequence of root
c) using index record is accessed. Therefore the required segment occurrence is accessed by sequential search
d) all DL/I calls except CHKP & XRST can be applied
152. Maximum number of bytes for function code – 4 byte
153. Various modes of processing – BMP, MPP, Batch DL/I
154. What are the characteristics of GSAM applicable for a VSAM ESDS database?
a) Fixed length record allowed
b) Variable length record allowed
c) Symbolic checkpoint call allowed
d) Restart from a checkpoint allowed
155. GN or GNP calls that cannot be satisfied for a particular parent but can be satisfied further in database under a different parent
a) F and L
b) D and V
c) D and N
d) U and V
156. What is the type of segment for which replace function can be applied fixed or variable
157. What do we understand from uni-directional logical relationship in logical database? Links 2 segment types (Logical child and parent) in 1 direction
158. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the
listing of PCBs in the entry statement (t or f) True
159. An IMS program performs insert operation on a database into segment with no key field. What is the insert rule which indicates that new segment are inserted at the end of the twin chain?
a) any b) here c) last d) end
160. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity (t or f) True
161. Sequential retrieval of the data from IMS db?
a) GU b) GU with SSA c) GN d) GU with no SSA
162. Command for path call D
163. Command for call not to replace a particular segment N
164. Why IMS is heterogenous?
a) DL/I interface separate data from application
b) Application can be development on workstate and run in host environment
c) IMS application can running on Linux environment and access IMS data using IMS connect
d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model
165. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls[Symbol] true
166. Db record in IMS defined as
a) A root segment occurrence with all direct child segment occurrence
b) All occurrence of root segment with dependent segment occurrence
c) Only root segment with all dependent segment occurrence
d) A root segment occurrence with all dependent segment occurrence
167. Match PROCOPT parameter
G 1. Enable exclusive use of segment ----[Symbol]E
I 2. To add data -----[Symbol]I
R 3. Access segment read only mode ------[Symbol] O (Prasad)
O 4. To update segment---[Symbol]R
E 5. Read without integrity pgm processing----[Symbol]G
G- for get
I-Insert
D-delete

R-Replace
A-all options(G,I,R,D)
L- for load
K- To access the key only
O- To be only used with G that get hold calls are not allowed.
P-path call

168. When extended restart function is used to restart the execution of a failed program, a GE status code is returned. (doubt)
a. Call preceding CHFP could have been a DLFT call on same PCB.---------->ANS(Jee)
b. Segment specified by concatenated key in the key feedback area of active pcb could be deleted by other program. ---------->ANS(Jee)
c. Active PCB key are used by restart is not a valid set of key.
d. Area used XRST & created by a priof CHKP call has no data related to PCB.
169. At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the program, a GNP call as well will accomplish same result.
a. True b. false
170. Prior to the execution of any application program from an address space.(CHOOSE MULTIPLE OPTIONS) (doubt)
a. check and adequate buffer availability for DB
b. required DBD & PSB must be logged in address space
c. DB ds must exist
d. DL/I region controller DFSRRC00 is loaded in address space from sys lib
171. U0688
a. IMS ctrl program is done and must be restored before any BMP processing done
b. DB has been in stopped condition
c. Region parameter on a batch job is too small for program to execute
d. DB contention and hence operator cancelled
172. Get unique ('GUBB') (CHOOSE MULTIPLE OPTIONS)
a. always returns first sequence in db that satisfied the qualifications
b. access the next sequence record which satisfies unqualified SSA
c. retrieves a specific segment occurrence independent of current position
d. used for establishing POS within DB
173. GUBB & GHUB are used to retrieve a specific seg occurrence independent of current position within DB qualified SSA identifying each hierarchical level are normally provided. What happens when there are missing levels without qualified SSA in the call? (doubt)
a. unqualified SSA may be assumed for missing levels
b. current control block into available for missing levels can be used
c. always returns first segment in DB that satisfies qualification
d. missing levels are not permitted
174. ACBGEN process (CHOOSE MULTIPLE OPTIONS)
a. stores internal format of PSB/DSB in ACBLAB
b. verifies the existence of DBDS
c. verifies key length parameter
d. verifies PSB-PCB-DBD existence and compatibility
175. Status code return after ISRT call to specify that no parent for segment being loaded exist
a. LB
b. LD
c. LE
d. LC
176. After the segment is accessed with a GET hold call, prior to a replace call user can modify
a. all field data within segment
b. any of the sensetive field data in segment except sequence field
c. entire segment data can be modified and replace in DB
d. segment entirely modified and written since replace is required to DEL & INSRT
177. In IMS DL/I application program execution which of the following options are applicable? (CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations
b. application program may interface with one or more DL/I DB
c. pgm & DL/I are contained in separate program address spaces
d. pgm & DL/I are contained in single program address spaces
e. when data is changed, a record of the db modification is written on PL/I system log.
178. PROCOPT = K in PSB allows key only sensitivity
179. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS)
a. randomizing routine to locate the record
b. free space is generated when root segment is deleted with all its dependent segment deleted
c. uses an index on the root key to locate recor0064
d. free space when root segment deleted and dependent segment not deleted but marked as a deleted
e. results in the smallest number of synonyms
180. Salient features of HSAM. (CHOOSE MULTIPLE OPTIONS) (check box)
a. dependent segment stored in the hierarchical sequence
b. record format is fixed or variable.
c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the beginning of the segment.
d. segment in each record are stored physically adjacent to DB.
181. PCB has variable portion of PCB.
a. segment name
b. segment level.
c. concatenated key area
d. DBD name
182. Nth position of SSA definition contains a left parenthesis to identify call as qualified SSA call. Correct value of n.
a. 7
b. 8
c. 10 d. 9
183. Purpose of DLI in IMS. (Check box)
a. Enables the separation of app code from data.
b. enables app pgm access & navigate through data by using DL/I standard callable services
c. non redundancy of data
d. multiple apps can access & update single instance of data.
e. ensures secured access to data in DB
184. WOTF are calls for which an IO pcb req calls.
a. CHKP & XRST
b. CHKP & XRST. INQY, SETS &sys service calls
c. only SSC
d. CHKP , XRST, UPDt.
185. XRST call try to reposition all dbs to position that were held when last CHKP is taken. (Check box)
a) By including each PCB & PCB key feedback area in the checkpoint record
b) Issuing XRST causes the key feedback area from the PCB in the checkpoint record to be moved to the corresponding PCB in the PSB that is being restarted.
c) Then IMS issues a GU call, qualified with the concatenated key, for each PCB that held a position when the checkpoint was taken.
d) Including each PCB & PCB key feedback area in the checkpoint record which is done automatically by IMS.
186. Implications of secondary indexes & logical relationships in IMS.

- 32 secondary indices on one segment type
- 1000 secondary indices for a database
- Secondary index is a special kind of logical relationship
- The pointer goes between databases rather than within one database
- Invisible to the application
- PROCSEQ= in the PCB tells IMS to use the secondary index for access
- Can have PROCSEQ= and normal PCBs in the same PSB
- Application must use the XDFLD name in the SSA
- If it uses the field name it will cause sequential scanning

187. GU call is used which no SSA has used. Retrieve the first root segment occurrence.

188. IRLM is delivered as part of IMs production. How IRLM used for IMS Env (check box)
a. SYS plex
b. z/os
189. HIDAM DB is made of 2 database main DB & index. What type of DB are used for dese:
a. Both VSAM & KSDS
b. I is VK & M in VE or 0.
c. I is VE & M in VE
d. I is VE & M in Vk
190. No. of bytes for a function code in IMS call. ----------> 4 bytes
191. Parameter DBRC=Y with CHKP& XRST calls. Specifies checkpoint data of blanks.

192. HISAM stores root segment & many dependent segment as possible in-
a. KSDS & fd primary & one rd low rec in second KDS
b. KSDS & OSAM
c. QSAM & OSAM
d. KSDS & ESDS
193. Logical relation between two segments defined in
a. PCB
b. Database record
c. logical seq block
d. IMS CB
note:- most correct answer to above ques will be Imsdbd only ,that option is not there ,that's why we have marked pcb .
194. AK status code. ----------> field name specified for qualified SSA is incorrectly coded
195. Always input from one GSAM DB & o/p to another GSAM DB
a. true
b. false
196. Maximum no. of bytes that can be defined for a code in IMS call.
a.3
b.4
c.9
d.6
197. PROCOPT used to insert DB in insert mode & asc.seq(Prasad)
a. I
b. IS
c.L
d. LS
198. What are properties of D & N command codes? ----> D-Path call & N-Path call ignore
199. IMS call to retrieve first occurrences in twin chain
a. U
b. V
c. F
d. L
200. PCB mask parameter used in IMS call?
201. What are the fields NOT used by the IMS in PCB mask associated with GSAM Database? (doubt)
a. Key feedback area
b. segment level number ---------->ANS(jee)
c. segment name---------->ANS(jee)
d. number of sensitive segments---------->ANS(jee)
202. segment definition specifies
a. sensitivity of the segment to the application
b. total length of the segment
c. internal representation of data within segment
d. category of related data within a segment
203. I-O PCB normally used for
a. only for terminal Io
b. for terminal IO and some DB calls like CHKP, XRST and LOG

c. only for testing online programs
d. only for conversion to online from batch processing
204. How can the output record to be written in a GSAM database?
a. can write output record anywhere in the DB as per key sequence order
b. can write output record to the end of the DB
c. can write output record to as per Record Searching Argument(RSA)
d. can write output record to the beginning of DB
205. Definition of DBD
206. Correct definition of number of segments field in PCB-mask defined in COBOL?
a. PIC S9(05) Comp
b. PIC x(04)
c. PIC 9(04)V 99
a. PIC A(04)
207. Reason for code U0853? (doubt)
a. the PSB used by the program is invalid or corrupted
b. using a wrong DB
c. After a reorg, use Old DB with the new DBD or vice versa
d. PSB needs to be restarted
e. Using corrupted DB
208. An application program issued an IMs call and retrieved to expected data from the segments of DB, what is the name of the Area that contains key of the last segment in countered satisfying the field of the call and indicating the details of the path of the call?
a. SSA
b. function code
c. key feedback area
d. PCB mask
e. PSB mask
209. What is DL/I?
a. DL/I is a programming language
b. DL/I is a set of modules interface (DB menu/ T.M.) and the application process
c. DL/I is a command level language and it is external to the application program
d. DL/I can be used in both online and batch programming
210. LC status Code? Key field of segment out of sequence
211. Which of the below combination of command codes is used to allow the program to process multiple segments using a single call?
a). C and N
b). D and N
c). F and U d). D and U
212. L and LS load and load sequence ascending

213. An IMS program performs insert operation on a database into segment with no key field.
a) any b) here c) last d) end (Ans: First , Last , Here)
214. Statement used as last statement to terminate the program and return control back to IMS?
a) Stop
b) Go back
c) Stop run
d) Exit
215. Path in ims db is defined as

- A path is the series of segments that starts from the root segment of a database record to any specific segment occurrence.
- A path in the hierarchy structure need not be complete to the lowest level. It depends on how much information we require about an entity.
- A path must be continuous and we cannot skip intermediate levels in the structure
- A path is a route line that Begins at the Root segment, travels through the segments at Intermediate levels in the hierarchy and Ends at a segment in the Bottom of the hierarchy

216. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS

a. randomizing routine to locate the record
b. free space is generated when root segment is deleted with all it's dependent segment deleted
c. uses an index on the root key to locate record
d. free space when root segment deleted and dependent segment not deleted but marked as a deleted
e. results in the smallest number of synonyms

217. PROCOPT to insert in DB in Ascending Sequence IS
218. When involving CHKP or XRST function in program, the PCB must specified should be (doubt)
a. Related to DB-PCB followed by IO-PCB
b. Related to both DB-PCB's and Io-PCB specified in mixed manner
c. Related to only a single IO-PCB
d. Related to IO-PCB followed by DB-PCB ---------->ANS(jee)
219. SD37, SE37abends:
SD37 - no secondary allocation was specified.
SE37 - Max. Of 16 extents already allocated. To solve SD37, one must specify secondary quantity while allocating a dataset.
220. U0476

Explanation:

A DL/I call does not include a valid PCB address. The PCB address in the DL/I call (second parameter or third, if count is the first parameter) is not one of the PCB addresses passed to the application program at its entry point.

Some possible causes for this failure are:

An address for an AIB was provided but the first eight bytes of the block do not equal 'DFSAIB'.
The PSB language specified is not the same as that of the application program.
The call requires a PCB address, but the function is the last entry in the call list.
The address of the PCB in the call is not one of the PCB addresses passed to the application at its entry point.
An online program issued an UNLD call. The UNLD call is an internal DL/I call and should never be issued by an application program. This abend can be the result of an improperly assembled or generated application program.

221. Which of the following is not a command code? X
222. The key feedback area contains
key of retrieved segment and its parents in the hierarchical path starting from the root segment
223. Symbolic check pointing is used in Batch & BMP
224. If symbolic checkpointing is used,CALL 'CBLTDLI' USING XRST I-O PCB MASK Longest Segment Length IO-Area Area1- Length IO-Area1.The IO-Area contains
a) BLANKS if the program is not to be restarted.
b. Otherwise IMS places the Checkpoint-ID value.
c. If Checkpoint-Id is blank,14 byte timestamp in the Restart Work Area automatically
225. Which is not an IMS control block?
Option other than Database Descriptor, Application Control Block and Program Specification Block
226. Unit of information that DL/I handles Segment data
227. Syntax of multiple positioning
PCB TYPE=DB, DBDNAME=HOSPITAL, KEYLEN=17, PROCOPT=A, POS=M
228. Batch back out means
a) Recover databases to a point before a program was initiated, or to a checkpoint or sync point.
b) Backs out all updates for all DL/1 data sets performed in that time period.
c) Run as a normal IMS batch job and uses the program specification block (PSB) of the program whose updates are to be backed out.
229. The Get Next (GN) call is used to
a) Retrieve segments sequentially from the database.
b) Retrieves the next segment from the previously established position
c) If position is not established, retrieves the first segment of segment
230. An GN call without any SSA's retrieves the first occurrence of root segment
231. U0136 abend means A previous program abend has hung up the IMS region
232. Which of the following command code is commonly used backup when doing sequential retrieval?

a. L
b. F
c. U
d. V

233. What will happen when GU call is issued between GHU and DLET call?
a. Hold can be nullified by GU call and segment cannot be deleted
b. The first occurrence of the segment can be deleted
c. The last occurrence of the segment can be deleted

234. Data management service is used to place input request to
a. Record data segment in a work area allocated
b. Record data record in a work area allocated

235. Which SSA can be used for sequential processing of all segments in ascending order
a. No SSA
b. Qualified/unqualified SSA
C. Only qualified SSA
d. Only unqualified SSA

236. In case of variable length segment, some values can be stored in 'n' in Io area. 'n' refers to
a. 8 bytes
b. 2
C. 5
D. 1

237. While replacing secondary index source segment, if either a search field or a sub sequential field is changed, ims performs a DLET & XRST against secondary index dB (t or f)

238. If first field in SSA is less than 8 characters, what will happen can padded up right with blanks

239. Piece of info used to transfer from dasd to ims pgm
a. Logical data
b. Segment data
c. Field data
d. Block in qsam

240. What is the function code with which the GA status code is issued by IMS?
a) GN
b) GHNP
c) GHU
d) GU

241. GSAM can't use concatenated Datasets- true/False---->FALSE

242. key field of a segment starts at Pos-1 - True / False--->False

243. Normally parentage is established at lowest segment accessed for GU & GN calls,that parentage remains in effect for subsequent GNP calls

Note :- if no GNP option is there ,then u can mark GN calls in the option

244. Pointers are used in hierarchical direct DB------>true

245. logical relation between two segmnts is defined in
a. PCB
b. Database record
c. logical seq block
d. IMS DBD

note:- if imsdbd is not there in the answer, then u can mark a. pcb

246. What are properties of D & N command codes? ----> D-Path call & N-Path call ignore

247. PCB mask parm used in IMS call? True

248. Function code- GA status code is issued by ims.
a. GN
b.GHU
c. GHNP
d.GU

249. Which of the below command code is used to perform the function of U command code in higher level SSA's?
a.D

b.N
c.V
d.F

250. HIDAM database is actually made up of 2 databases - the main database & index .What type of database was used for them?

a.index is VSAM KSDS & main VSAM ESDS or OSAM
b.index is VSAM ESDS & main VSAM kSDS
c.Both are VSAM KSDS
d.Both are VSAM ESDS

251. An IMS program has issued a DLET Call but rejected to proceed it with GH command and code is?

a.DA--------->try to modify key field
b.Dx
c.DJ
d.RX

252. After segement is accessed with GH calls prior to replace call, user can modify

a.all field data within segment
b.any of sensitive field segment except sequence field
c.entire segment data can be modified and replaced database
d.segemnt entirely modified and written series replace is equivalent to delete and then insert

253. invOICE segment has been defined under CUSTOMER segment.The application require to access the INVOICE by GN or GNP call in order to the most recent invoice data first for a specified customer.How will you achieve in IMs?

a.specify invoice data as a sequence field in invoice segment under a specified customer
b.specify invoice data as a negative number 2's complement
c.specify invoice data in 2's complement form and specify it as a sequence field
d.store the invoice data in such a way that the most recent invoice is stored always first in the database under given customer

254. AH - invalid SSA encountered on insert call
AJ - SSA specified for the call is invalid
AM - function specified is not compatible with one of segment sensitivity, program type, or PCB processing
IX - insert rule violation
AO - a physical I/O error has occurred

255. ISRT call is of two types of operations 1. For initial load 2.To add new segements

a.L for initial load & G for adding new segments
b.L for initial load & G for adding new segments
c.LS for initial load & A for adding new segments
d.L for initial load & I for adding new segments note:- (LS for adding new segments) this can also be there ,both r correct

256. User abend U0476 pgm storage area of the PCB(check box)

a.PSB language specified in PSB is the same as language used in pgm---------->The PSB language specified is not the same as that of the application program.
b.Number & order of the PCB in PSB match with number and order specified in the pgm
c.In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB
d.The address of PCB in pgm has been overloaded in pgm
e.DBD name specified in PSB either missing or compared in DBDLIB

257. DBD specifies (check box)

a.HDAM randomizing module
b.access method used
c.name of physical dataset which hold the databases
d.Characterisitics of dataset to DBMS

258. if after issuing a get hold call, the pgm determine that it is not necessary to change or delete the retrieved segment.what will happen to the segement field by previous GH call?

a.Segment remain in locked condition & has to be released explicitly by RLSE call before it becomes available for access for other call
b.Pgm can proceed further as its a normal GET call without hold
c.Any other call executed after GH on the same PCB will be releasing the HOLd

d.Any other call executed on any PCB or the DB will be releasing HOLD condition

259. Which DB call is correct for DLI job?

a
```
CALL 'CBLTDLI' USING
CALL- FUNCTION,

IO-PCB,

DB-PCB-MASK,

IO-AREA

SSA1,

SSA2,
```

b
```
CALL 'CBLTDLI' USING CALL-
FUNCTION,

DB-PCB-MASK,

IO-AREA

 SSA1,

SSA2,
```

c
```
CALL 'CBLTDLI' USING CALL-
FUNCTION,

IO-PCB,

DB-PCB-MASK,

SSA1,

SSA2, IO-AREA
```

d
```
CALL 'CBLTDLI' USING CALL-
FUNCTION,

DB-PCB-MASK,

IO-AREA,

SSA1, SSA2
```

260. Pick the statement which is FALSE for HDAM access method

a. **Cannot have non-unique root segment key**
b. Automatic re-use of space after segment deletions
c. Fast random access to the root segment , via the randamizor
d. Quick access to segments in a database record

261. What are twin segments?

a **Different occurrences of a particular segment type under the same parent**

b **Different occurrences of a particular segment type under different parents**

c	**Segment occurrences of different types under the same parent**
d	**Segment occurrences of different types under the different parent**

262. Program specification block is made up of one or more program communication blocks. State True or False. True

263. Which of the following is the role of an IMS Database Manager

a). Control concurrent access to the data so as to maintain integrity for all updates.
b). Minimize hardware device and operating systems access method dependencies
c). Reduce data redundancy by maintaining only one copy of the data
d). All of the listed Options

264. In an XRST call, the non-spaces in IO-Area indicates the

a) Normal Start of the Program
b) Restart of the Program
c) Unsuccessful XRST call
d) None of the listed options

3 - User abend U3303 has occurred indicating that the database is not available for use. What will be the solution you propose?
a - check to see that a database has been started
b - check to ensure that the corresponding DBD exist in the specified DBDLIB
c - check to ensure that the corresponding PSB exist in the specified PSBLIB
d - check to see all the Index databases exist.

4 - User abend U0777?---------->Database contention and operator cancelled.

5 - User abend code U0100? ---------->Bad Checkpoint

6 - which is the correct value of PROCOPT to be specified to force exclusive use of IMS DB for segment by MPPSMP environment so that
no other program which reference is this database or segment is scheduled in parallel ?
a - K-------ans
b - O
c - E
d - G

7 - If DL/I calls that use the same PCB attempt to intervene in between the get hold call and the delete call, the delete call becomes non-operational,
State true or false?
a - True---------ans
b - False

7 - upto a level to be inserted, qualified SSA given in the insert call establishes the position where the new segment is to be inserted unqualified SSA is specified for the segment inserted.
Where is the new segment inserted?
Select one or more.
a - the value of the sequence field in the segment in the user I/O area will established insert position
b - if no sequence field for the segment to be inserted exist the segment is inserted at the beginning of the physical twin chain.
c - if no sequence field is defined for the segment to be inserted the segment is inserted at the end of physical twin chain

d - if multiple non unique keys are allowed the segment is inserted in the beginning of the existing segment
e - if multiple non unique ki saral out the segment is inserted after existing segment with the same key value

7 - Which is the invalid IMS is call from the given options?
a - CALL 'DLITCBLI' USING FUNC-CODE PCB - MASK PATIENT IO-AREA PATIENT-SSA
b - CALL 'CBLTDLI' USING FUNC-CODE PCB - MASK PATIENT IO-AREA PATIENT-SSA
c - CALL 'CBLTDLI' USING PCB - MASK FUNC-CODE PATIENT IO-AREA PATIENT-SSA
d - CALL 'DLITCBL' USING PCB - MASK FUNC-CODE PATIENT IO-AREA PATIENT-SSA

8 - what is the name of the IMS region controller program used to execute any IMS calls?
a - DFSREGCN
b - DFSRCONT
c - DFSRRC00
d - DFSIMSCON

8 - What do KEY-FB-AREA(Key feedback area) in the PCB mask represent?
a - The maximun keys within the hierarchy of segments
b - Key of the segment retrived and keys of its parents------ans
c - The key of the root segment
d - Key of the segment retrived

9 - What are the characteristices of AIB (Application Intrface block)?
a - AIB can be used instead PCB in the entry statement -----ans
b - Entry statement specification is required for AIB
c - The PCB name used for the call is specified in the resource name field of the AIB
d - The application program uses the PCB address that is returned to the AIB to determine the results of the call.
e - AIBTDLI interface is needed for AIB supported calls

10 - which of the following is correct definition of key length in the PCB mask data Structure related to cobol?
a - S9(08) COMP
b - S9(04) COMP
c - S9(07) COMP
d - S9(05) COMP-----ans

11 - Which of the following is true about setting up parentage on the segment occurrence?
a - first GU call has to be issued followed by GN call to setup the parentage.
b - only GU call can be used for setting a parentage and not GN call
c - either GU call or GN call can be used to setup parentage
d - only GN call can be used to setup parentage and not GU call

12 - The 'D' command code is the only one allowed on DLET call?
a - True+---------ans
b - False

13 - what is the function code with which the GA status code is issued by IMS?
a - GHNP
b - GN----------ans
c - GU
d - GHU

14 - Qualified GN & GNP call returncode 'GB'indicates? ---------->End of database reached on GN
call

14 - UNQualified GN & GNP call returncode 'GB'indicates?
a - End of database reached----------ans
b - crossed hierarchy boundary to higher level
c - no parent establised
d - different segment type at same segment level

15 - which of the following is true about the IO area parameter coded in IMS call which retrives only one segment data from the database?
a - IO area must be coded to accommodate the storage necessary for the segments related to the first and second SSA in the call
b - IO area coding is not mandatory
c - IO area must be provided that is large enough to contain the segment type related to the last SSA in the call----------ans
d - IO area must be coded to accommodate the storage necessary for the segment related to the first SSA in the call

16 - if the program being restarted in either a batch region or a BMP region and the checkpoint log records no longer reside on the online log data set (OLDS)
Or system log dat set(SLDS) then specify what is the solution
a - specify the log data set where the checkpoint details may be present through //IMSLOGR DD statement ---------ans
b - program will be unable to restart and hence terminates abnormally
c - program will be unable to restart and hands returns the IMS status code and terminates
d - program enters into the wait state and operator has to cancel it

16 - Consider the XRST cal format XRST IO PCB, I-O area length , I-O area, area1- length , area1. What contains the I-O area after the completion of XRST call?
a - the I-O areaalways contains the 8 character checkpoint ID which is used for the restart
b - if the checkpoint ID is equal to 8 blank character (checkpoint ID not specified for restart) then the IO area contains the 14 character timestamp
c - the I-O area is totally filled with blank characters after the restart call
d - the IO area contains the 8 character job name used for restart and the 14 character timestamp

16 - XRST call try to reposition all database of the position that we held when the last checkpoint taken. How can this be achieved in IMS DB?
a - by including each PCB and the PCB key feedback area in the checkpoint record
b - issuing XRST will move the PCB key feedback area from one check point record to the corresponding PCB in the PSB is been restarted
c - IMS issues a GU call based on concatenated key in the key feedback area on each active PCB to access the segment that was positioned when the checkpoint was taken
d - including each PCB and PCB key feedback area in the checkpoint record which was done automatically by the IMS when the checkpoint call is made

17 - when extended restart function is used to restart the execution of a failed program, a GE status code is returned. what could be the reason for this?
a - the call proceeding the checkpoint call could have been a DLET call on the same PCB. PCB key feedback contains the concatenated key of the deleted segment. When restarted (XRST call) the same concatenated key is used with GU call and this resulted in the GE status code----------ans
b - the segment specified by the concatenated key in the key feedback area of the active PCB could have ----------ans
been deleted so another program between the time your program abnormally terminated and got restarted
c - the concatenated key from the key feedback area of the active PCB used by the restart process is not a valid set of key values due to data corruption

d - the IO area used XRST(restart) and created by a prior checkpoint call has no PCB consequently the GU call issued for accessing
in the segment during restart process restarted in GE status code

19 - A typical CHKP call can be:
CALL CBLTDLI USING WS-CHKP
IO-PCB ,IO-AREA-LEN, IO-AREA
IO-AREA-LEN1, IO-AREA1
WS-CHKP contains the function code CHKP. What are the contents of IO-AREA and IO- AREA 1 and how many IO-AREA1 can be assigned in the call.?
a - 7 times
b - 8 times------ans
c - 4 times in single call
d - as many times as required in single call

Which of the below options describe the difference between U and v command codes correctly?
a - V command code avoid necessity for coding and SSA at first level when the function of the U command code is required at each level
b - U command code in in GN call with an qualified SSA restricts the search for the segment to dependence of segment and U command code.
Which V command code in qualified SSA its effect is the same as U command code coded at that level and the levels above it in the hierarchy.
c - U command code in the GN call with and unqualified SSA its effect is the same as U command code coded at that level and the levels above it in the hierarchy.
d - V command code awards and necessity for coding and SSA at each level when the function of the u command code in SSA required at last level

21 - what is the correct command code for below options that can be used to bring more than one segment into the I/O area in a single call?
a - P
b - U
c - F
d - D

22 -

23 - what is the command code that can be used to establish the parentage of a particular level in the
database hierarchy which is different than the parentage identified by the last SSA reference by the call?
a - N
b -
c -
d -

23 - what is the command code that can be used to establish the parentage of a particular level, in the database hierarchy which has different than the parentage identified by the last SSA reference for the call?
a - N
b - U
c - C
d - P

24 - which of the following command code will set parentage in DLI call?
a - U
b - N
c - O
d - P

24 - what are the properties of D and N command codes?
Select one or more.
a - D and N command codes work together to process multiple segments in a single call.
b - the I-O area must be defined large enough to accommodate all the segments being retrieved in the path
c - when D command code is not coded only the segment identified by the first SSA is placed into the IO area-------ans
d - D command code perform a path call, where in DL/I retrieve multiple segments along the retrieval path-------ans
e - N command when coded in SSA, those segments will not be replaced back when replace call is executed.-------ans

24 - The NULL command code ' ' is used in the SSA ___
Select one or more-
a - to treat as if no command code is coded
b - to enable to use the same SSA for more than one purpose

c - to store the command code during program execution
d - to simplify the construction of SSA within the program
e - null command code and 'n' command code are equivalent

25.IMS call to reteive first occurences in twin chain
a.U
b.V
c.F---------->ANS
d.L

25 - identify from the below options the command code used to issue a path call
a - D command code
b - L command code
c -
d -

26 - Database descriptor specify -
Select one or more
a - complete physical structure of the database with all the segment details within if -------ans
b - complete physical structure of the database with only the segment of the interest of the application
c - DBDGEN(database descriptor generator) is used to create DBD control block-------ans
d - one or more DBD which can be specified for database-------ans

26 - The PSB and the DBD provide the control block definition that IMS uses for managing application programs. The PCB types that can be defined in a PSB are?
Select one or more-
a - The I/O PCB which is automatically generated and provide input output message call support and systems service call support----ans
b - one or more alternate PCB statements for output message distribution call support
c - one or more IMS DB PCB statements for data access call support
d - data PCB which specify the database segments the application program can use and the access for which the program is authorised-----ans
e - address for the AIB, if created for the database-----ans

28 - What is the name of the IMS control block that is used to define the logical relationship between the segments
a - program control block------ans

b - database definition
c - logical segment block-----ans
d - IMS control block

28 - Which of the following are the control blocks in IMS DB environment?
Select one or more.

a- DCB
b - DBD-------ans
c - PCB
d - PSB------ans
e - ACB------ans

29 - A database definition (DBD) specifies__
a - HDAM randomising module
b - name of the physical dataset which holds the database--------ans
c - the access method used-------ans
d - the characteristics of the physical database in the DBMS-------ans

29 - the PROCOPT = L or PROCOPT= LS specified in the PCB indicates?
a - database is updated
b - database is loaded
c - database is inserted---------ans
d - all of the above options

29 - which is the correct name of the statement used in PCB definition that is used to specify the field level sensitivity and the field
specified in this statement are limited to those field that are identified in DBD field statement?
a - SENSEG
b - PSBGEN
c - SENFLD
d - DBDGEN-------ans

30 - THE SEGMENTS IN IMS DATABASE CAN BE SECURED FOR SPECIFIC OPERATIONS through?
a -
b -

c -
d -

31 - What is the IMS status code which specify the insert rule voilation?
a - II------ans
b - IJ
c - ID
d - IX

31 - the PCB mask name specified in the entry statement of a cobol program which access and IMS database can be satisfying the following rule ___
a - the order of the PCB mask names in the entry statement must be the same sequence as PCBs specified in the PSB for the program--------ans
b - need to specify only one PCB mask on the entry statement which will be applicable for the entire set of pcbs defined in the PSB
c - the PCB mask specification on the entry statement is optional only and hence need not to be specified always
d - mask names can be specified in the entry statement for as many PCBs be specified in the PSB and their order in the entry statement irrelevant

32 - Invoice segment has been defined under the customer segment.
The application requires to access the invoice by GN or GNP call in order of the most recent invoice date firstfor a specifies customer.
How will you achive this in IMS DB?
a - Specify a invooce date as negative number (2's complement)--------ans
b - Specify the invoice date as sequence field in the invoice segment under a specified customer.
c - Specify the invoice date in 2's complement form and specify it as sequence field
d - Store the invoice data in such a waythat the most recent invoice is stored always first in tha database under a given customer.

33 - What does DL/I Analyzer status code AH Indicates?
a - No Segment I/O area specified in the call
b - Invalid field name specified in qualified SSA
c - SSA qualification format is invalid
d - At least one SSA required for the call

33 - what is the functionality of GNP call ?
a - identical to GU call but limited to the dependent
b - to establish parentage at any segment satisfying the qualified SSA mentioned therein
c - identical to the GN calls but limited to dependent segments only of a previous established parent
d - identical to the GHU call Scott limited to the previous established position in the database

34 - What happens if a GU call is issued by the program between GHU call and DLET call?
a - The Get-Hold call will be nullified and the segment cannot be deleted
b - The concerned segment is deleted from the database
c - The first occurance in the root segment will be deleted-_----_-----ans
d - The last occurance in the root segment will be deleted

34 - which of the following is correct statement regarding the get hold call?
a - the program can make changes to key field value after issuing get hold call
b - the program cannot make changes to key field value after issuing get hold call
c - the program can insert a new key field value
d - the program can make changes to all key fields in the root segments

35 - The status code should be checked after every DI/I Call?
a - True-----ans
b - False

36 - what are the fields not used by IMS in PCB mask associated with GSAM database?
a - key feedback area
b - segment level number------ans
c - segment name-----ans
d - number of sensitive segments-----ans

36 - in case of working with variable length segments for issuing IMS calls, the application program uses the value in the
first 'n' number of bytes to determine how much of the IO area contains usable information
 What is the value of 'n'?

a - 8-----ans
b - 1

c - 5
d - 2

37 - what is the unit data transfer from DL/I to an application program?
a - logical record
b - data of fields of interest from one or more segments-------ans
c - control interval in VSAM or a block of QSAM
d - segment data

38 - what is the name of the entity in IMS db that consists of single occurrence of the root segment and type and all of its dependent segment occurrences?
a - parent segment
b - database record--------ans
c - child segment
d - dependent segment

38 - Place the rules of hierarchy sequence in correct order?
A. Top to bottom - Move to a child segment
B. Left to right- move to sibling statement
C. Up and to the right - move to the twin or sibling of the parent
D. Front to Back - move to twin segment
a - A-D-B-C
b - C-D-B-A
c - A-B-C-D
d - B-A-D-C

39 - a number of factors must be considered by the DBA while designing the database, what are the factors about database design that a programmer is concerned with?
a - segment names that a program may access---ans
b - various fields format within the assigned segments--------ans
c - names and formats of the fields used for search including the key field-----ans
d - awareness of database recovery control specified for the database
e - hierarchical relationship of the assigned segments and processing permission on the accessed segments------ans

40 - IMS uses sequence field to identify and provide access __
a - to a particular database record and its segment
b - each segment can have a sequence field normally

c - not every segment type must have a sequence field defined
d - more than one field can be defined as a sequence field within a segment

40 - for HISAM database a reorganisation utility must be run to get the deleted segment space available for re-use?
a - True
b - False

40 - what is the secondary data structure in IMS DB?
Select one or more
a - hierarchical structure of the database is accessed through secondary index
b - if the secondary index points to a root segment the secondary data structure is identical to the main database hierarchy
c - if the target segment is a dependent segment the dependent becomes the root segment in the secondary structure
d - parents of the target segment are inverted and viewed as children children of the target segment remain as children and the
secondary data structure appearing to the right of the target parents
e - secondary indexes are not maintained by IMS automatically

41 - while replacing a secondary index source segment if either a search field or a subsequence field is changed IMS perform insert delete and insert against the secondary index in database
a - true-------ans
b - False

42 - what are the Salient features of HIDAM? (Hierarchical index and direct access method)
Select one or more.
a - HIDAM uses index to facilitate random processing
b - index contains the key of the root and its address
c - two DBD are required, one for data area and another one for index area.
d - the index can be processed as a database
e - sequential accessing of the segments do not use the index of pointers

43 - what do we understand from uni-directional logical relationship in logical database?
a - it builds a relationship between the logical child and its logical parent-------ans

b - the logical child is accessible from its logical parent------ans
c - the logical parent can be accessible from logical child------ans
d - the logical parent can access the logical child and vice versa

Doubt ----------
44 - what is meant by ODBM (IMS open database manager)?
a - enable to access IMS database from Java programs anywhere from the enterprise
b - enable access to IMS database from COBOL program anywhere from the enterprise
c - enable access to IMS database from cobol or PL/I programs anywhere from the enterprise
d - enable access to IMS database from COBOL or PL/I or java program anywhere from the enterprise

44 - what types of record format are supported in GSAM related datasets.?
a - fixed record format
b - fixed and variable record format
c -
d -only variable length record format

45 - in an IMS database structure the number of levels are restricted to?
a - 15-------ans
b - 17
c - 18
d - 16

45 - field in an IMS segment specify?
Select one or more?
a - can be used as a key in the segment for ordering segment occurrences------ans
b - piece of data which can be further subdivided
c - single piece of data in a segment------ans
d - multiple field specifies related data in a segment--------ans

46 - GSAM can't useconactenated Datasets -true/False ----> FALSE

47 - Characteristics of IMS batch environment?
a)Batch address space not connected to IMS online control segment-------->ANS
b)Can access only full function database such as HSAM,HDAM etc and not fast path database as DEBD, MSDB etc-------> ANS

c)Not possible toaccess full function database that are online to IMS online control segment
d)All IMS codeused by application resides in batch address space where programrunning ---------->ANS
e)Batch address space opens and reads IMS data set directly------>ANS

48 - if the database call is to update or delete the segment then
a - the segment is updated or deleted directly in the buffer and progressively returned to DASD
b - the segment must be retrieved first into the buffer before it is updated or deleted in the buffer and progressive written to DASD+------ans
c - segment is directly updated or deleted on the database
d - segment is directly updated or deleted in the allocated segment area within the program

49 - HISAM access method can be used in situations
a - when the database record size is predictable
b - when the database is standalone in the sense that logical link to other databases
c - when the database structure is comparatively simple
d - when there are only limited additions and deletions in the database

50 - Access from dependent to dependent or root to dependent in HD databases is always via?
a - either physical positioning or pointers
b - Pointers-------ans
c - physical positioning of the segments in database record

51 - after issuing a path call by IMS program followed by delete call the program is allowed to reference a single SSA
What is the call type and command code used in the case?
a - get hold call and command D
b - get unique call and command code C
c - get hold call and command code N--------ans
d - get next call and command code N
d - index reference

51 - To 'back-up' to the first segment of a given type within a database record, a GU call with the unqualified
SSA for the desired segment type which will retrieve that segment. Additionally fully qualified

SSA for higher level segment may be given but they are not necessary?
a - True------ans
b - False

52 - at any time the position to be established at the first segment in the database and unqualified GU call may be executed.
If call is the very first in the program, a GNP call as well will accomplish the same result ?
a - True
b - False------ans

53 - In update mode status code of 'bb' and 'll' are 'expected and /or reasonable' status code
a - True-------ans
b - False

54 - In IMS DL/I application program execution which of the following options are applicable?
a- an application program may interface with one or more DL/I database.-------ans
b - the program and DL/I are combined in a single problem access space(region)-----ans
c - when data is changed a record of the database modification is written on DL/I system log.--------ans
d - the program and DL/I are contained in separate problem program addressspaces (region)
e - the application program could have interfaces for the file operation and database

55 - which of the following value is represented by status code field in PCB when an IMS call is successful?
a - GB
b - SPACE--------ans
c - GE
d - Zero

56 - in an IMS program multiple segments are retrieved using a get hold path call and replace call is issued with no SSAs
What do you think will happen in the above scenario?
a - data in the last segment retrieved is replaced
b - none of the retrieved segments are replaced
c - data in the first segment retrieved is replaced------ans
d - all the retrieved segments are replaced

56 - The HOSPITAL database has a hierarchy as HOSPITAL --> WARD --> PATIENT --> DOCTOR.
The doctor segment is defined as SEGM as SEGM NAME = DOCTOR, PARENT = parent, bytes= 20 , rules =(HERE)
The doctor segment does not have a key field.
Which of the following below explains the meaning of the insert rule here ?
a - current position is used to determine which in the twin chain does new segment are inserted------ans
b - new segments are inserted after the first segment of the twin chin
c - new segments are inserted at the beginning of the twin chain
d - new segments are inserted at the end of the twin chain

57 - what is the type (fixed or variable) of segments for which are REPL function can be applied?
a - fixed length segments with segment length not more than 500 bytes----------ans
b - fixed length segments only
c -
d -

Format of the XRST call is given here: XRST IO PCB, I-O area length, I-O area , area1-length, area1, area2-length, area 2.....
What are the contents of IO area?

Select one or more?
a - 1 to 8 character checkpoint ID from which the program has to restart---------ans
b - 14 character timestamp detail to enable the program to restart from a specific timestamp------ans
c - 4 character LAST indicating that the program has to restart from last checkpoint taken for BMP environment only ------ans
d - pointer indicating the location of data areas where the critical variable contents are stored

HISAM access method can be used in situations
a - when the database record size is predictable----ans
b - when the database is standalone in the sense that logical link to other databases------ans
c - when the database structure is comparatively simple------ans
d - when there are only limited additions and deletions in the database

Access from dependent to dependent or root to dependent in HD databases is always via?
a - either physical positioning or pointers
b - Pointers+--+-----ans
c - physical positioning of the segments in database record
d - index reference

42 - What are the salient features of hierarchy direct databases?
a - deleted segments will be marked as deleted
b - deleted segments will be physically removed from the database--------ans
c - VSAM ESDS or OSAM datasets are used for storage---------ans
d - segments can be inserted or deleted without the path change of other segments

59 - The hospital database has a hierarchy as HOSPITAL --> WARD --> PATIENT. Fully qualified GU call is issued to retrieve a particular patient (PATIENT 1) data .
The call is coded as below in the procedure division
CALL CBLTDLI USING GU
PCB - MASK
PATIENT - IO - AREA
PATIENT - SSA
What is the correct answer for? the below options?

a - the data of the patient 1 in all the WARD segments in the first hospital segment is retrieved --------ans
b - the data of patient 1 in all the WARD segments in all the hospital segments is retrieved
c - the data of the patient 1 in the first WARD segment in the first hospital segment is retrieved
d - the data of the patient 1 in the last WARD segment in the first hospital segment is retrieved

60 - The nTH position of the SSA defined contains a left parenthesis to identify the call as qualified SSA call
What is the correct value of 'n'?
a -
b -
c -
d -

1. Characteristics of GSAM applicable for BSAM/QSAM db? -----→ correct

a) Symbolic checkpoint call allowed

b) Symbolic checkpoint call not allowed

c) Fixed length record allowed

d) Variable or undefined record allowed

e) Restart from checkpoint allowed

2. status code of AK? SSA contains invalid field name or Field name specified on SSA is not defined in the DBD

AK - The field name does not match the name in the DBD.

AD - The function code is invalid

AJ - SSA is coded incorrectly

GB - End of database reached

GE - No segment was found which matches the specific criteria.

GA - During unqualified sequential processing, IMS crosses the higher level of hierarchy.

GK - During unqualified sequential processing, IMS moved to the different segment but at the same level.

AI - Open error

II - An attempt to insert a duplicate.

DA - An attempt top modify the key field during replace/delete call

DJ - An attempt to replace or delete the segment that was not held.

LB- attempt to load a segment that already exists.

LC- attempts to load a segment out of sequence.

LD- attempts to load a segment whose parent does not exist.

LE-hierarchical sequence in dbd that does not match with the segments to be loaded.

3. User abend code U0100? Bad checkpoint, User error (A type X '47 'log record can't be created because change in db list of BMP exceeds the capacity

4. Qualified GN & GNP call return code 'GB' indicates? End of db was reached on GN call

5. Component of IMS DL/I call provide information to segment to be retrieved? SSA

6. Command code that IMS call not to replace particular segment? C,F,N,D N

7. Command code to issue path? V,L,P,D D

8. Coding standard for multiple positioning for PCB? POS= M

9. Maximum number of segment type in db restrict to? 255

10. In DBDGEN TYPE=X denotes which datatype? Hexa decimal

Parameters	Description
Name	Name of the field, typically 1 to 8 characters long
Bytes	Length of the field
Start	Position of field within segment
Type	Data type of the field
Type C	Character data type
Type P	Packed decimal data type
Type Z	Zoned decimal data type

Type x	Hexadecimal data type
Type H	Half word binary data type
Type F	Full word binary data type

11. In DBDGEN suppress the listing of matching instructions? Print NOGEN

12. Type of segment for REPL function applied? Fixed and Variable segment

13. Status for load same segment twice? LB

- LB - When you try to load the same segment twice i.e. segment already exists
- LC - The segments being loaded are not in their Hierarchical sequence i.e. key values out of sequence
- LD - No parent for the segments being loaded. You cannot load a dependent segment until its parent has been loaded.
- LE - Segment types out of sequence. For example: - If you tried to load a facility segment before a patient segment.

14. Status code GK? Diff segment level at each segment type

- GA - Moved up in level to retrieve the segment
- GK - New segment type at the same level is retrieved
- GB - End of database is reached
- BLANK - Segment successfully retrieved
- GE - Segments not found following the current position

15. U3303? (An IRLM failure or unavailable data or database stopped) or (database down or stopped)

16. Name the process of logical db by creating control block by PSB? PSBGEN

17. Characteristics of IMS batch environment?

a) Batch address space not connected to IMS online control segment

b) Can access only full function database such as HSAM, HDAM etc and not fast path database as DEBD, MSDB etc

c) Not possible to access full function database that are online to IMS online control segment

d) All IMS code used by application resides in batch address space where program running

e) Batch address space opens and reads IMS dataset directly

18. A field in IMS segment indicates? Sequence key field or search field using which segments can be retrieved with qualified SSA

19. Access method used for HISAM? VSAM or hierarchal indexed segment access method

- The access methods that HISAM can use are VSAM and OSAM
- Direct access of record by root keys
- Sequential access of records
- Sequential access of dependent segments

20. HISAM is specified for? Sequential or direct access to roots and sequential processing of dependent segments

21. AIB defined in working storage of application program?(t or f) true

22. Status code check after every DL/I call? (t or f) true

23. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls? Code [COMPAT=YES] to generate IOPCB in PSBGEN

24. ----- SSA in single IMS call --→ 15

25. How access secondary DB in IMS to?

a) By using XDFIELD field

b) By defining PROCOPT=indexed db name in pcb

c) By defining Procesq = index in pcb

d) By defining Procesq = indexed DB name in pcb

26. ------ to select DB records in sequence other than defined by key field a) Secondary index

27. Unqualified SSA space is in ---- th field a) 9th field

28. How to identify Logical child in db?

a) L-child in psb

b) L-child in pcb

c) L-child in Linkage section

d) L-child in Dbd

29. False for HDAM access method?

a) Cannot have non unique root segment key

b) Fast access to root

c) Reuse of space

d) Quick access to segment

30. In DD statement which is optional in executing DL/I job?

a) Proclib

b) Ims

c) DFSRESLB

d) IEFRDER

31. Where to define IO-PCB

a) Psb b) Linkage section c) DBD d) PCB

32. Types of fast path DB

Ans: DEDB, MSDB

33. DB access which are offline for ----- mode of process

a) all b) MPP c)BMP d) DL/I

34. Optional parameter IMS call

a) SSA b) IO-area c)Pcb mask

35. Status call will not result in REPL call

a) DJ b) DA c) II d) RX

36. Type of CHKP call in MPP

a) both b) none c) symchkp d)basic chkp

37. In xrst call non space in program is indicated at---- position

a) 12 b) 9 c) 10 d) 6

38. GK status code possible in ------- call a) Qualified GN b) Unqualified GN c) Unqualified GU d) qualified GU

39. Which statement is correct in DLI jobs? CALL 'CBLTDLI' USING DLI-GU

PCB Mask

Segment I/O Area

[Segment Search Arguments]

40. Procopt option for 'LS'? ---→ Load in ascending Sequence

41. -------- to logically end Ims application by releasing resources from IMS

a) Stop Run b) Go Back 3) none

42. Max. of secondary index in single ims db

a) 1000 b) 100 c) 500 d) 750

43. Sibling segment define two or more segments having a common parent

44. Rules parameter is used in

a) DBD b) PSB c) ACB d) PCB

45. Role of ims transaction manager?

Process I/P msg from a variety of source

Process O/P msg from application

Provide queuing mechanism for handling these msgs

Provide efficient txn processing for IMS db and db2

46. ims call to reset PCB Pointer?

a) GN b) GNP c) GU d) GHU

47. Max.no of data area in symbolic check point is

a) 8 b) 7 c) 6 d) 5

48. What do key feedback area in PCB mask represents? Concatenated key of the retrieved segments in the hierarchal path

49. True about PCB mask parameter?

a) PCB in its first parameter

b) Required when 1 PCB access

c) Included in call even if program access only 1 pcb or more than 1 pcb

d) PCB mask parameter is required only in call if program access multiple PCB

50. DL/I calls can execute directly within DB batch using JCL? True

51 .GU call issued when no SSA issued.What happen at the time of retrival?

a) It retrieve at the first occurrence of the root segment

b) Ims assumes fully qualified call and retrives data from all

c) Ims assumes fully qualified call and retrives data from last segment

d) Maintain proper hierarchy

52. In IMS DL/I program execution.DL/I acts as…..Which are applicable?

a) Interface for file operation and database operation

b) Change in DL/I system is stored at DL/I log(Prasad) (Doubt)

c) Application program interface with one or more DL/I

d) Seen in region/regions

53. IRLM is part of IMS product. How IRLM is used for IMS? Internal Resource Lock Manager (used to maintain lock on IMS resource)

54. Status code of AC, AI, DA, GE

AC - Hierarchical error in SSA

AI - error while opening db all calls

DA –sequence field is changed to repl

GE- Segment not found

55 .At XRST function,GE status code returned? GU for the concatenated key was not fully satisfied

56. In nth position of SSA contain left parenthesis to identify Qualified SSA call.What value of 'n'?

a) 10 b)8 c)9 d)7

57. What is the INSERT rule which indicates new segment that insert at beginning…

a) Here b)First c)Any d)Last

note:- insert at beginning :- first

insert at end :- last

insert at mid with some calls :- here

58. Success – space

59. User abend code: U0777 Application pgm terminated abnormally because potential resource was in deadlock condition

60. Always Input taken from GSAM and output is also from GSAM? false

61. Segment 'Customer' is the direct parent to the child segment 'Invoice'. Here how to retrieve most recent invoice data?

a) store Invoice in data in which most recent at first segment

b) specifies invoice data at 2's complement

62. When invoking Checkpoint/Restart function,PCB mask specified should be,

a) Related to database PCB by IO-PCB

b) related to IO-PCB followed by database PCB

c) related to both IO-PCB and database PCB

d) only 1 IO-PCB

63. Batch backout:

a) Batch backout unit operates as normal DL/I batch job and uses PSB whose changes are backout

b) Involves read of log dataset to backout all database updates after abnormal termination

c) Other can run against system database between failure and backout

d) Done using the before image data from log to update database segment

64. IMS sets parentage at lowest segment.once parentage established,Parentage remains in effect for subsequent:

a) GU b)all c)GN d)GNP

65. Correct PCB coding for multiple positioning for PCB?

a) PCB type=db,Name=Hospital,Position=Multi

b) PCB type=db,Name=Hospital,Position=M

c) PCB type=db,Name=Hospital,Position=Multiple

66. Type (fixed/variable) of segment for which REPL call applied?

a) Variable length segment only

b) fixed/variable

c) Fixed not more than 500

d) Variable

67. Features of HIDAM Random and Sequential access to DB records

68. Format of XRST call…in which I/O-area specifies…

A 1- to 8-character extended checkpoint ID.

A 14-character "time stamp" ID from message DFS0540I, where:

- IIII is the region ID.
- DDD is the day of the year.
- HHMMSST is the time in hours, minutes, seconds, and tenth of a second.

The 4-character constant "LAST".

69. IMS application need to exercise control over GN/GNP call that can't be satisfied further in database

Under different parent

a) U and V
b) D and N
c) D and V
d) F and Z

70. AIB characteristics: To communicate with IMS when an application program does not have a PCB address or call function does not use PCB

71. Function code with which GA status code issued by IMS

a) GN b) GHU c) GHNP d) GU

72. In HIDAM segments tied together without need of segment physically adjacent. True

73. After successful retrieval call in IMS, which position is established?

a) At immediately after segment occurrence that retrieved

b) At segment retrieved

c) First occurrence

d) Prior to segment

74. Why do we say IMS based on open standards?

a) DL/I supports ims database
b) Supports Java for application development
c) Xml→supports transaction document
d) Unix/linux→supports database implementation

75. To find how many times the retrival moved down in level.Find combination of codes (doubt)

a) GA,GK,GB
b) GB
c) GA
d) GK

76. D command code is only one allowed on DLET call False

77. ----------code from option to reserve room in SSA for command code (doubt)

a) U
b) D
c) V
d) NULL ---------->ANS(jee)

78. User abend code: U0844 (database is full).If it occurs what solution you propose?

Run db backout utility and re-create the db allocating more space

79. IO-PCB normally used for: checkpoint / restart

80. After successful retrieval call in IMS, GSAM places the address of record that is returned to program in PCB mask field (Prasad)

a) RSA
b) KFA
c) KFBL
d) Reserved for ims area

81. Parent segment-→ SKILL

Immediate child → NAME

How to retrieve all the names of skill having value “engineer”

82. Valid function code used after Get-Hold call

a) GU – Qualified SSA at skill
b) GNP - Unqualified SSA at name
c) DLET
d) GN - Qualified SSA at skill, Unqualified SSA at name

83. Correct DSDGEN to suppress machine instruction.

a) Print NoList
b) Print NoGen
c) Noprint List
d) Noprint Gen

84. Which command can perform function of ‘U’ command in high level SSA

a) F
b) V
c) D
d) N

85. Invalid GET HOLD call:

a) GHU
b) GHN
c) GHP
d) GHNP

86. What function code to perform ims call for random retrieval?

a) GHN
b) GN
c) GU
d) GNP

87. IMS program has to replace all retrieved segment after issue of IMS call.

a) Get Hold path call followed by replace call with no SSA
b) Get Hold path call followed by delete call with unqualified SSA
c) Get Hold path call " " " by Replace call with qualified SSA
d) Get Hold path call """""""""""""""" by Delete call with qualified SSA

88. Characteristics of HISAM

a) Parent and child will be stored in physical sequence (Prasad)

b) Overflow area maintain for addition of segment

c) DASD space is reusable when segment are deleted

d) Pointer are used when dependent segment stored in overflow area

89. Program running in MPP region can access only

a) IMS database
b) Only non-ims database
c) IMS as well as DB2
d) Non ims data files

90. SB37 abend indicates:

a) Out of space
b) Change secondary all spaces
c) Vol=ser=xxxxx
d) Wrong record format in jcl and disk has input-output failure

91. Segment in ims d/b can be secured for specific operation through…

a) PCB
b) Program
c) DBD
d) PSB

92. IMS batch environment feedback

93. What is the unit of data transfer from DASD to IMS Data Buffer?

a) Data of field from one or more segments
b) Control interval in VSAM/block in QSAM
c) Segment data
d) Logical record

Note:-- both option a ,c is correct ,any one wll come in exam

94. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?

a) seg

b) segment

c) DBDGEN d) PSBGEN

95. Option that is correct regarding ssa coding.

a) first field in ssa are of 8 bytes

b) left padded with space

c) right padded with space

d) right padded with * and call cannot execute

96. While coding PCB in a program , which field indicate the level of segment that is just processed?

a. DL/I-SEQ

b. status-Code

c. PROC- option

d. SEG-LEVEL

97. XRST call try to reposition all dbs to position that were held when last CHKP is taken. How can this be achieved?

Through checkpoint id

98. user abend U0100 occurs bcz.,

a) Bad checkpoint

b) abended due to too many BMP running

c) storage problem

99. Hospital -> Ward ->patient->doctor … GU call on Patient (fully qualified call).wht segment data retrived as result of call?

a) Patient only

b) Hospital only (I guess)

c) Hospital,ward,patient

d) ward and patient

100. Access from dependent to dependent or root to dependent in database is always via

a) Pointer

b) Index

c) physical positioning of segment

d) either physical positioning or

101. Functions of symbolic checkpoint call

a) Commit changes program has made to database

b) Establish places in programs from where program can be restarted it

c) To save as many as seven data area containing critical data which are restored when program is restarted

d) An XRST call with blank checkpoint Id is required to execute prior to CHKP call to indicate IMS that symbolic checkpoint is taken

102. Relation between PCB mask and PCB is created by listing of PCB in entry statement? TRUE

103. Reason for user abend U08553?

a) PSB is invalid/corrupted

b) Wrong database

c) After reorganized, use old database with new DBD or viceversa

d) PSB->restart

e) Use correct database

104. Where is the randomizing module name specified for HDAM database?

a) PSB

b) ACB

c) PCB

d) DBD

105. which parameters is coded chering PSB gen to generate 10 PCB which needs to be used with CHKP, XRST calls?

a. CMPAT = N

b. CMPAT = Y

c. DBRC = Y

d. DBRC = Y & CMPAT = N.

106. All files used for checkpoint and restart must be. select one:

a) Related to any IMS database files

b) Related to only GSAM database files

c) Related to HDAM & GSAM database only

d) Related to HSAM &GSAM database only

107. Correct regarding GH retrieval call.

a) Get hold retrieval call program to issue GNP call in succession to it

b) Get hold retrieval call program to issue DLET call in succession to it

c) Get hold retrieval call program to issue REPL call in succession to it

d) Get hold retrieval call may not required program to issue DLET or REPL call in succession to it. If any other call is issued effect of get hold is nullified and treated as simple get call.

108. Ideal ims call for segment retrival of data from ims database?

a) GU

b) GU with SSA c) GU with no SSA d) GN

109. Correct statement regarding gn call issued as a first call with no SSA unidirectional logical relationship is logical DB?

110. Segment A,B,C,D,E: GU call at D, Parentage at D, so GNP call will return E. True

111. Which function code in IMS used to get next record from database to update?

a) GHU b) GU c) GN d) GHN

112. What do we understand from uni- directional logical relationship in logical database? Access is one way or one direction

113. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the

listing of PCBs in the entry statement (t or f) True

114. GHU call followed by -> GU ->followed by REPL call in which all call use same PCB. what happen in this case?

a) Segment held by GU will be replaced

b) REPL operation not executed giving DJ

c) Segment held by GHU call will be replaced

d) Segment held by GU call will be bypassed giving DA

115. Gk status code

a) New segment type at same level when series of GN calls issued in program

b) End of database

c) End of root segment

d) Data retrival using GN call moved up in one level

116. Hospital →ward→Patient.Here how to retrieve PATIENT segment as?

a) Only Patient as qualified SSA and rest all as Unqualified SSA

b) retrieve as Fully qualified

c) only Ward and Patient as qualified SSA

d) any call

117. Not a valid syntax for command code in IMS call

a. ward *PD

b. ward *D(ward no = 4)

c. ward *D

d. ward *D wardno = 4

118. What is the language interface module (DFSRRC00) used for? IMS region controller program to access IMS db

119. Correct definition of key-length in PCB-mask data structure?

a) S9 (07) comp

b) S9 (05) comp

c) S9 (04) comp

d) S9 (08) comp

120. ACB?

a) ACB pre built/dynamically created for online application

b) Created for Batch appln

c) Combination of DBD + PSB

d) Created for online appln

121. DBD specifies?

a) Name b) Access method c) characteristics…

122. An application program issues delete call and the call violates delete. What status code to use?

a) DJ

b) DA

c) DX

d) RX

123. What are the implications of secondary indexes and logical relationships in IMS db? XDFLD, LCHILD

124. HDAM database consist of single dataset

a) Root AA contains root segment

b) Which is VSAM/KSDS/OSAM

c) Which is VSAM/ESDS/OSAM

d) Divided into RAA and OAA

125. Maximum no. of bytes that can be defined for a code in IMS call.

a.3

b.4

c.9

d.6

126. which environment used for running application which use symbolic checkpoint and restart call(Prasad)

a) MPP b) BMP c) Transaction BMP d) Batch environment

127. U0826 → UNABLE TO OPEN INDEXED DATABASE DATASET. How to solve? (doubt)

a) check with DBA

b) check with Index dataset database

c) check with dd name is correct or not

d) check buffer size large enough to hold data

e) check index database dataset name is correct

128. SSA containing one or more command code which have to be used for more than one purpose by .What is the correct command? NULL command code (-)

129. User abend: U0002 The ims control region abends, abnormally terminates, so it forces this abend for active dependent regions

130. IMS system log contains before/after IMG, restart IMG True

131. C ,V,---,N,U,F,D,P,Q,L

Ans:

a) Locate at the first occurrence→f
b) Locate at the last occurrence-→L
c) Retrieve this segment data into IO-area→ D(retrieve or insert a sequence of segment in a hierarchial path using a single call)
d) Not replace the segment→N
   Concatenated key in ssa--→C
e) Enqueue this segment-→Q
f) Maintain current position at this level-→U
g) Maintain current position at this and higher level--→V
h) Parentage at this level-→p
i) Null command-→ ---

132. If program being restarted in either batch/BMP region and chkp log no longer reside in OLDS/SLDS, then justify solution

133. hosp→ward→Patient: To retrieve P0001 from w0001.what call to specify? Qualified by GU by GN

134. What is the unit of data transfer from DASD to ims data buffer? Segment data

135. AIB is in working-storage section. True

136. Which area in pcb mask provides information of all the segments that is retrived? Key feedback area

137. I have ims program to read and print data from ims database, to update the same program,

138. Which function code don't help in setting up parentage in case of sequential retrieval of data? GU and GHU

139. When qualified ssa gets terminated? When condition is met or EOF db is reached

140. Application environment from which IMS database can access,

a) IMS TM

b) CICS for Z/OS

c) Z/OS batch

d) Application running under TSO

e) Web sphere application server for Z/OS

141. U0475 - a java application program attempted to run as an ims batch job

U0777 – Application pgm terminated abnormally because potential resource was in deadlock condition

142. Ims issue delete call for the segment that has other dependent segment. what will happen? Segment and all its dependent gets deleted

143. Number of factors must be considered by DBD while designing in DBD. (CHOOSE MULTIPLE OPTIONS)

a. hierarchical relationships of the accessed segments and processing permissions on accessed segment

b. name and format

c. segment name

d. various field format

e. awareness of DB recovery control specified for DB

144. In IMS DL/I application program execution which of the following options are applicable? (CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations

b. application program may interface with one or more DL/I DB

c. pgm & DL/I are contained in separate program address spaces

d. pgm & DL/I are contained in single program address spaces

e. when data is changed, a record of the db modification is written on PL/I system log.

145. U0047 abend. (CHOOSE MULTIPLE OPTIONS)

a. one of the DB PCB failed to obtained DBR (authorization for DB)

b. bring down DB using IMS command/DBR DB(data base name)

c. wait till contending job completes

d. restart job which failed after starting DB

e. First stop DB by using IMS command/STOP DB (DB name) & then start DB/start (DB name)

146. Type of segment for which REPL function can be applied? (doubt)

a. FL OR VL

b. FL seg only

c. FL seg with seg length not more than 500 bytes.

d. VL seg only.

147. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS)

a. randomizing routine to locate the record

b. free space is generated when root segment is deleted with all it's dependent segment deleted

c. uses an index on the root key to locate record

d. free space when root segment deleted and dependent segment not deleted but marked as a deleted

e. results in the smallest number of synonyms

148. What does segment signify in ims db?

A) smallest unit of data that an application can retrieve from db contain one or more field

b) segment can be created with single field or combination of more field

c) segment can also exist without any field

d) segment is created with similar data items together

149. XRST can be used after previous abnormal termination of program

a) To restart from specific checkpoint ID

b) To restart from specific time/time stamp

c) To restart from last checkpoint ID & must be executed as last call in program

d) To restart from last checkpoint ID for BMP & execute as first call in program

150. Fundamentals of PSB are

a) specifies view of data that application wishes to process

b) PSB can be shared by different programs that have similar db processing required

c) PSB contains atleast one PCB for each DL/I db that application wishes to access

d) a program may use more than one PSB in single execution

e) A program can use one PSB in single execution

151. How indexing done for HISAM db

a) each HISAM record is indexed based root key

b) In HISAM initial loading of data is done on ascending key sequence of root

c) using index record is accessed. Therefore the required segment occurrence is accessed by sequential search

d) all DL/I calls except CHKP & XRST can be applied

152. Maximum number of bytes for function code – 4 byte

153. Various modes of processing – BMP, MPP, Batch DL/I

154. What are the characteristics of GSAM applicable for a VSAM ESDS database?

a) Fixed length record allowed

b) Variable length record allowed

c) Symbolic checkpoint call allowed

d) Restart from a checkpoint allowed

155. GN or GNP calls that cannot be satisfied for a particular parent but can be satisfied further in database under a different parent

a) F and L

b) D and V

c) D and N

d) U and V

156. What is the type of segment for which replace function can be applied fixed or variable

157. What do we understand from uni-directional logical relationship in logical database? Links 2 segment types (Logical child and parent) in 1 direction

158. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the

listing of PCBs in the entry statement (t or f) True

159. An IMS program performs insert operation on a database into segment with no key field. What is the insert rule which indicates that new segment are inserted at the end of the twin chain?

a) any b) here c) last d) end

160. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity (t or f) True

161. Sequential retrieval of the data from IMS db?

a) GU b) GU with SSA c) GN d) GU with no SSA

162. Command for path call D

163. Command for call not to replace a particular segment N

164. Why IMS is heterogenous?

a) DL/I interface separate data from application

b) Application can be development on workstate and run in host environment

c) IMS application can running on Linux environment and access IMS data using IMS connect

d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model

165. Code during PSBGEN to generate IOPCB which needed to be used with CHKP, XRST calls→ true

166. Db record in IMS defined as

a) A root segment occurrence with all direct child segment occurrence

b) All occurrence of root segment with dependent segment occurrence

c) Only root segment with all dependent segment occurrence

d) A root segment occurrence with all dependent segment occurrence

167. Match PROCOPT parameter

G 1. Enable exclusive use of segment ----→E

I 2. To add data -----→I

R 3. Access segment read only mode ------→ O (Prasad)

O 4. To update segment---→R

E 5. Read without integrity pgm processing----→G

G- for get

I-Insert

D-delete

R-Replace

A-all options(G,I,R,D)

L- for load

K- To access the key only

O- To be only used with G that get hold calls are not allowed.

P-path call

168. When extended restart function is used to restart the execution of a failed program, a GE status code is returned. (doubt)

a. Call preceding CHFP could have been a DLFT call on same PCB.---------->ANS(Jee)

b. Segment specified by concatenated key in the key feedback area of active pcb could be deleted by other program. ---------->ANS(Jee)

c. Active PCB key are used by restart is not a valid set of key.

d. Area used XRST & created by a priof CHKP call has no data related to PCB.

169. At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the program, a GNP call as well will accomplish same result.

a. True b. false

170. Prior to the execution of any application program from an address space.(CHOOSE MULTIPLE OPTIONS) (doubt)

a. check and adequate buffer availability for DB

b. required DBD & PSB must be logged in address space

c. DB ds must exist

d. DL/I region controller DFSRRC00 is loaded in address space from sys lib

171. U0688

a. IMS ctrl program is done and must be restored before any BMP processing done

b. DB has been in stopped condition

c. Region parameter on a batch job is too small for program to execute

d. DB contention and hence operator cancelled

172. Get unique ('GUBB') (CHOOSE MULTIPLE OPTIONS)

a. always returns first sequence in db that satisfied the qualifications

b. access the next sequence record which satisfies unqualified SSA

c. retrieves a specific segment occurrence independent of current position

d. used for establishing POS within DB

173. GUBB & GHUB are used to retrieve a specific seg occurrence independent of current position within DB qualified SSA identifying each hierarchical level are normally provided. What happens when there are missing levels without qualified SSA in the call? (doubt)

a. unqualified SSA may be assumed for missing levels

b. current control block into available for missing levels can be used

c. always returns first segment in DB that satisfies qualification

d. missing levels are not permitted

174. ACBGEN process (CHOOSE MULTIPLE OPTIONS)

a. stores internal format of PSB/DSB in ACBLAB

b. verifies the existence of DBDS

c. verifies key length parameter

d. verifies PSB-PCB-DBD existence and compatibility

175. Status code return after ISRT call to specify that no parent for segment being loaded exist

a. LB

b. LD

c. LE

d. LC

176. After the segment is accessed with a GET hold call, prior to a replace call user can modify

a. all field data within segment

b. any of the sensetive field data in segment except sequence field

c. entire segment data can be modified and replace in DB

d. segment entirely modified and written since replace is required to DEL & INSRT

177. In IMS DL/I application program execution which of the following options are applicable? (CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations

b. application program may interface with one or more DL/I DB

c. pgm & DL/I are contained in separate program address spaces

d. pgm & DL/I are contained in single program address spaces

e. when data is changed, a record of the db modification is written on PL/I system log.

178. PROCOPT = K in PSB allows key only sensitivity

179. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS)

a. randomizing routine to locate the record

b. free space is generated when root segment is deleted with all its dependent segment deleted

c. uses an index on the root key to locate recor0064

d. free space when root segment deleted and dependent segment not deleted but marked as a deleted

e. results in the smallest number of synonyms

180. Salient features of HSAM. (CHOOSE MULTIPLE OPTIONS) (check box)

a. dependent segment stored in the hierarchical sequence

b. record format is fixed or variable.

c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the beginning of the segment.

d. segment in each record are stored physically adjacent to DB.

181. PCB has variable portion of PCB.

a. segment name

b. segment level.

c. concatenated key area

d. DBD name

182. Nth position of SSA definition contains a left parenthesis to identify call as qualified SSA call. Correct value of n.

a. 7

b. 8

c. 10 d. 9

183. Purpose of DLI in IMS. (Check box)

a. Enables the separation of app code from data.

b. enables app pgm access & navigate through data by using DL/I standard callable services

c. non redundancy of data

d. multiple apps can access & update single instance of data.

e. ensures secured access to data in DB

184. WOTF are calls for which an IO pcb req calls.

a. CHKP & XRST

b. CHKP & XRST. INQY, SETS &sys service calls

c. only SSC

d. CHKP , XRST, UPDt.

185. XRST call try to reposition all dbs to position that were held when last CHKP is taken. (Check box)

a) By including each PCB & PCB key feedback area in the checkpoint record

b) Issuing XRST causes the key feedback area from the PCB in the checkpoint record to be moved to the corresponding PCB in the PSB that is being restarted.

c) Then IMS issues a GU call, qualified with the concatenated key, for each PCB that held a position when the checkpoint was taken.

d) Including each PCB & PCB key feedback area in the checkpoint record which is done automatically by IMS.

186. Implications of secondary indexes & logical relationships in IMS.

- 32 secondary indices on one segment type
- 1000 secondary indices for a database
- Secondary index is a special kind of logical relationship
- The pointer goes between databases rather than within one database
- Invisible to the application
- PROCSEQ= in the PCB tells IMS to use the secondary index for access
- Can have PROCSEQ= and normal PCBs in the same PSB
- Application must use the XDFLD name in the SSA
- If it uses the field name it will cause sequential scanning

187. GU call is used which no SSA has used. Retrieve the first root segment occurrence.

188. IRLM is delivered as part of IMs production. How IRLM used for IMS Env (check box)

a. SYS plex

b. z/os

189. HIDAM DB is made of 2 database main DB & index. What type of DB are used for dese:

a. Both VSAM & KSDS

b. I is VK & M in VE or 0.

c. I is VE & M in VE

d. I is VE & M in Vk

190. No. of bytes for a function code in IMS call. ----------> 4 bytes

191. Parameter DBRC=Y with CHKP& XRST calls. Specifies checkpoint data of blanks.

192. HISAM stores root segment & many dependent segment as possible in-

a. KSDS & fd primary & one rd low rec in second KDS

b. KSDS & OSAM

c. QSAM & OSAM

d. KSDS & ESDS

193. Logical relation between two segments defined in

a. PCB

b. Database record

c. logical seq block

d. IMS CB

note:- most correct answer to above ques will be Imsdbd only ,that option is not there ,that's why we have marked pcb .

194. AK status code. ----------> field name specified for qualified SSA is incorrectly coded

195. Always input from one GSAM DB & o/p to another GSAM DB

a. true

b. false

196. Maximum no. of bytes that can be defined for a code in IMS call.

a.3

b.4

c.9

d.6

197. PROCOPT used to insert DB in insert mode & asc.seq(Prasad)

a. I

b. IS

c.L

d. LS

198. What are properties of D & N command codes? ----> D-Path call & N-Path call ignore

199. IMS call to retrieve first occurrences in twin chain

a. U

b. V

c. F

d. L

200. PCB mask parameter used in IMS call?

201. What are the fields NOT used by the IMS in PCB mask associated with GSAM Database? (doubt)

a. Key feedback area

b. segment level number ---------->ANS(jee)

c. segment name---------->ANS(jee)

d. number of sensitive segments---------->ANS(jee)

202. segment definition specifies

a. sensitivity of the segment to the application

b. total length of the segment

c. internal representation of data within segment

d. category of related data within a segment

203. I-O PCB normally used for

a. only for terminal Io

b. for terminal IO and some DB calls like CHKP, XRST and LOG

c. only for testing online programs

d. only for conversion to online from batch processing

204. How can the output record to be written in a GSAM database?

a. can write output record anywhere in the DB as per key sequence order

b. can write output record to the end of the DB

c. can write output record to as per Record Searching Argument(RSA)

d. can write output record to the beginning of DB

205. Definition of DBD

206. Correct definition of number of segments field in PCB-mask defined in COBOL?

a. PIC S9(05) Comp

b. PIC x(04)

c. PIC 9(04)V 99

a. PIC A(04)

207. Reason for code U0853? (doubt)

a. the PSB used by the program is invalid or corrupted

b. using a wrong DB

c. After a reorg, use Old DB with the new DBD or vice versa

d. PSB needs to be restarted

e. Using corrupted DB

208. An application program issued an IMs call and retrieved to expected data from the segments of DB, what is the name of the Area that contains key of the last segment in countered satisfying the field of the call and indicating the details of the path of the call?

a. SSA

b. function code

c. key feedback area

d. PCB mask

e. PSB mask

209. What is DL/I?

a. DL/I is a programming language

b. DL/I is a set of modules interface (DB menu/ T.M.) and the application process

c. DL/I is a command level language and it is external to the application program

d. DL/I can be used in both online and batch programming

210. LC status Code? Key field of segment out of sequence

211. Which of the below combination of command codes is used to allow the program to process multiple segments using a single call?

a). C and N

b). D and N

c). F and U d). D and U

212. L and LS load and load sequence ascending

213. An IMS program performs insert operation on a database into segment with no key field.

a) any b) here c) last d) end (Ans: First , Last , Here)

214. Statement used as last statement to terminate the program and return control back to IMS?

a) Stop

b) Go back

c) Stop run

d) Exit

215. Path in ims db is defined as

- A path is the series of segments that starts from the root segment of a database record to any specific segment occurrence.
- A path in the hierarchy structure need not be complete to the lowest level. It depends on how much information we require about an entity.
- A path must be continuous and we cannot skip intermediate levels in the structure
- A path is a route line that Begins at the Root segment, travels through the segments at Intermediate levels in the hierarchy and Ends at a segment in the Bottom of the hierarchy

216. HDAM access is efficient because. (CHOOSE MULTIPLE OPTIONS

a. randomizing routine to locate the record

b. free space is generated when root segment is deleted with all it's dependent segment deleted

c. uses an index on the root key to locate record

d. free space when root segment deleted and dependent segment not deleted but marked as a deleted

e. results in the smallest number of synonyms

217. PROCOPT to insert in DB in Ascending Sequence IS

218. When involving CHKP or XRST function in program, the PCB must specified should be (doubt)

a. Related to DB-PCB followed by IO-PCB

b. Related to both DB-PCB's and Io-PCB specified in mixed manner

c. Related to only a single IO-PCB

d. Related to IO-PCB followed by DB-PCB ---------->ANS(jee)

219. SD37, SE37abends:

SD37 - no secondary allocation was specified.
SE37 - Max. Of 16 extents already allocated. To solve SD37, one must specify secondary quantity while allocating a dataset.

220. U0476

Explanation:

A DL/I call does not include a valid PCB address. The PCB address in the DL/I call (second parameter or third, if count is the first parameter) is not one of the PCB addresses passed to the application program at

its entry point.

Some possible causes for this failure are:

An address for an AIB was provided but the first eight bytes of the block do not equal 'DFSAIB'.

The PSB language specified is not the same as that of the application program.

The call requires a PCB address, but the function is the last entry in the call list.

The address of the PCB in the call is not one of the PCB addresses passed to the application at its entry point.

An online program issued an UNLD call. The UNLD call is an internal DL/I call and should never be issued by an application program. This abend can be the result of an improperly assembled or generated application program.

221. Which of the following is not a command code? X

222. The key feedback area contains

key of retrieved segment and its parents in the hierarchical path starting from the root segment

223. Symbolic check pointing is used in Batch & BMP

224. If symbolic checkpointing is used,CALL 'CBLTDLI' USING XRST I-O PCB MASK Longest Segment Length IO-Area Area1- Length IO-Area1.The IO-Area contains

a) BLANKS if the program is not to be restarted.

b) Otherwise IMS places the Checkpoint-ID value.

c) If Checkpoint-Id is blank,14 byte timestamp in the Restart Work Area automatically

225. Which is not an IMS control block?

Option other than Database Descriptor, Application Control Block and Program Specification Block

226. Unit of information that DL/I handles Segment data

227. Syntax of multiple positioning

PCB TYPE=DB, DBDNAME=HOSPITAL, KEYLEN=17, PROCOPT=A, POS=M

228. Batch back out means

a) Recover databases to a point before a program was initiated, or to a checkpoint or sync point.

b) Backs out all updates for all DL/1 data sets performed in that time period.

c) Run as a normal IMS batch job and uses the program specification block (PSB) of the program whose updates are to be backed out.

229. The Get Next (GN) call is used to

a) Retrieve segments sequentially from the database.

b) Retrieves the next segment from the previously established position

c) If position is not established, retrieves the first segment of segment

230. An GN call without any SSA's retrieves the first occurrence of root segment

231. U0136 abend means A previous program abend has hung up the IMS region

232. Which of the following command code is commonly used backup when doing sequential retrieval?

a. L

b. F

c. U

d. V

233. What will happen when GU call is issued between GHU and DLET call?

a. Hold can be nullified by GU call and segment cannot be deleted

b. The first occurrence of the segment can be deleted

c. The last occurrence of the segment can be deleted

234. Data management service is used to place input request to

a. Record data segment in a work area allocated

b. Record data record in a work area allocated

235. Which SSA can be used for sequential processing of all segments in ascending order

a. No SSA

b. Qualified/unqualified SSA

C. Only qualified SSA

d. Only unqualified SSA

236. In case of variable length segment, some values can be stored in 'n' in Io area. 'n' refers to

a. 8 bytes

b. 2

C. 5

D. 1

237. While replacing secondary index source segment, if either a search field or a sub sequential field is changed, ims performs a DLET & XRST against secondary index dB (t or f)

238. If first field in SSA is less than 8 characters, what will happen can padded up right with blanks

239. Piece of info used to transfer from dasd to ims pgm

a. Logical data

b. Segment data

c. Field data

d. Block in qsam

240. What is the function code with which the GA status code is issued by IMS?

a) GN

b) GHNP

c) GHU

d) GU

241. GSAM can't use concatenated Datasets- true/False---->FALSE

242. key field of a segment starts at Pos-1 - True / False--->False

243. Normally parentage is established at lowest segment accessed for GU & GN calls,that parentage remains in effect for subsequent GNP calls

Note :- if no GNP option is there ,then u can mark GN calls in the option

244. Pointers are used in hierarchical direct DB------>true

245. logical relation between two segmnts is defined in

a. PCB

b. Database record

c. logical seq block

d. IMS DBD

note:- if imsdbd is not there in the answer, then u can mark a. pcb

246. What are properties of D & N command codes? ----> D-Path call & N-Path call ignore

247. PCB mask parm used in IMS call? True

248. Function code- GA status code is issued by ims.

a. GN

b.GHU

c. GHNP

d.GU

249. Which of the below command code is used to perform the function of U command code in higher level SSA's?

a.D

b.N

c.V

d.F

250. HIDAM database is actually made up of 2 databases - the main database & index .What type of database was used for them?

a.index is VSAM KSDS & main VSAM ESDS or OSAM

b.index is VSAM ESDS & main VSAM kSDS

c.Both are VSAM KSDS

d.Both are VSAM ESDS

251. An IMS program has issued a DLET Call but rejected to proceed it with GH command and code is?

a.DA--------->try to modify key field

b.Dx

c.DJ

d.RX

252. After segement is accessed with GH calls prior to replace call, user can modify

a.all field data within segment

b.any of sensitive field segment except sequence field

c.entire segment data can be modified and replaced database

d.segemnt entirely modified and written series replace is equivalent to delete and then insert

253. invOICE segment has been defined under CUSTOMER segment.The application require to access the INVOICE by GN or GNP call in order to the most recent invoice data first for a specified customer.How will you achieve in IMs?

a.specify invoice data as a sequence field in invoice segment under a specified customer

b.specify invoice data as a negative number 2's complement

c.specify invoice data in 2's complement form and specify it as a sequence field

d.store the invoice data in such a way that the most recent invoice is stored always first in the database under given customer

254. AH - invalid SSA encountered on insert call

AJ - SSA specified for the call is invalid

AM - function specified is not compatible with one of segment sensitivity, program type, or PCB processing

IX - insert rule violation

AO - a physical I/O error has occurred

255. ISRT call is of two types of operations 1. For initial load 2.To add new segements

a.L for initial load & G for adding new segments

b.L for initial load & G for adding new segments

c.LS for initial load & A for adding new segments

d.L for initial load & I for adding new segments note:- (LS for adding new segments) this can also be there ,both r correct

256. User abend U0476 pgm storage area of the PCB(check box)

a.PSB language specified in PSB is the same as language used in pgm---------->The PSB language specified is not the same as that of the application program.

b.Number & order of the PCB in PSB match with number and order specified in the pgm

c.In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB

d.The address of PCB in pgm has been overloaded in pgm

e.DBD name specified in PSB either missing or compared in DBDLIB

257. DBD specifies (check box)

a.HDAM randomizing module

b.access method used

c.name of physical dataset which hold the databases

d.Characterisitics of dataset to DBMS

258. if after issuing a get hold call, the pgm determine that it is not necessary to change or delete the retrieved segment.what will happen to the segement field by previous GH call?

a.Segment remain in locked condition & has to be released explicitly by RLSE call before it becomes available for access for other call

b.Pgm can proceed further as its a normal GET call without hold

c.Any other call executed after GH on the same PCB will be releasing the HOLd

d.Any other call executed on any PCB or the DB will be releasing HOLD condition

259. Which DB call is correct for DLI job?

a

```
CALL 'CBLTDLI' USING
CALL- FUNCTION,

IO-PCB,

DB-PCB-MASK,

IO-AREA

SSA1,

SSA2,
```

b

```
CALL 'CBLTDLI' USING
CALL-FUNCTION,

DB-PCB-MASK,

IO-AREA

 SSA1,

SSA2,
```

c

```
CALL 'CBLTDLI' USING
CALL-FUNCTION,

IO-PCB,
```

DB-PCB-MASK,

SSA1,

SSA2, IO-AREA

d CALL 'CBLTDLI' USING
CALL-FUNCTION,

DB-PCB-MASK,

IO-AREA,

SSA1, SSA2

260. Pick the statement which is FALSE for HDAM access method

a) Cannot have non-unique root segment key
b) Automatic re-use of space after segment deletions
c) Fast random access to the root segment , via the randamizor
d) Quick access to segments in a database record

261. What are twin segments?

a **Different occurrences of a particular segment type under the same parent**

b **Different occurrences of a particular segment type under different parents**

c **Segment occurrences of different types under the same parent**

d **Segment occurrences of different types under the different parent**

262. Program specification block is made up of one or more program communication blocks. State True or False. True

263. Which of the following is the role of an IMS Database Manager

a). Control concurrent access to the data so as to maintain integrity for all updates.

b). Minimize hardware device and operating systems access method dependencies

c). Reduce data redundancy by maintaining only one copy of the data

d). All of the listed Options

264. In an XRST call, the non-spaces in IO-Area indicates the

a) Normal Start of the Program

b) Restart of the Program

c) Unsuccessful XRST call

d) None of the listed options

3 - User abend U3303 has occurred indicating that the database is not available for use. What will be the solution you propose?
a - check to see that a database has been started
b - check to ensure that the corresponding DBD exist in the specified DBDLIB
c - check to ensure that the corresponding PSB exist in the specified PSBLIB
d - check to see all the Index databases exist. Answer

4 - User abend U0777?----------
>Database contention and operator cancelled.

5 - User abend code U0100? ----------
--->Bad Checkpoint

6 - which is the correct value of PROCOPT to be specified to force exclusive use of IMS DB for segment by MPPSMP environment so that no other program which reference is this database or segment is scheduled in parallel ?
a - K-------ans
b - O
c - E
d - G

7 - If DL/I calls that use the same PCB attempt to intervene in between the get hold call and the delete call, the delete call becomes non-operational,
State true or false?
a - True---------ans
b - False

7 - upto a level to be inserted, qualified SSA given in the insert call establishes the position where the new segment is to be inserted unqualified SSA is specified for the segment inserted. Where is the new segment inserted?

Select one or more.
a - the value of the sequence field in the segment in the user I/O area will established insert position
b - if no sequence field for the segment to be inserted exist the segment is inserted at the beginning of the physical twin chain.
c - if no sequence field is defined for the segment to be inserted the segment is inserted at the end of physical twin chain. Answer
d - if multiple non unique keys are allowed the segment is inserted in the beginning of the existing segment
e - if multiple non unique ki saral out the segment is inserted after existing segment with the same key value

7 - Which is the invalid IMS is call from the given options?
a - CALL 'DLITCBLI' USING FUNC-CODE PCB - MASK PATIENT IO-AREA PATIENT-SSA
b - CALL 'CBLTDLI' USING FUNC-CODE PCB - MASK PATIENT IO-AREA PATIENT-SSA
c - CALL 'CBLTDLI' USING PCB - MASK FUNC-CODE PATIENT IO-AREA PATIENT-SSA
d - CALL 'DLITCBL' USING PCB - MASK FUNC-CODE PATIENT IO-AREA PATIENT-SSA

8 - what is the name of the IMS region controller program used to execute any IMS calls?
a - DFSREGCN ---- ans
b - DFSRCONT
c - DFSRRC00
d - DFSIMSCON

8 - What do KEY-FB-AREA(Key feedback area) in the PCB mask represent?
a - The maximun keys within the hierarchy of segments
b - Key of the segment retrived and keys of its parents------ans
c - The key of the root segment
d - Key of the segment retrived

9 - What are the characteristices of AIB (Application Intrface block)?
a - AIB can be used instead PCB in the entry statement -----ans
b - Entry statement specification is required for AIB
c - The PCB name used for the call is specified in the resource name field of the AIB

d - The application program uses the PCB address that is returned to the AIB to determine the results of the call.
e - AIBTDLI interface is needed for AIB supported calls

10 - which of the following is correct definition of key length in the PCB mask data Structure related to cobol?
a - S9(08) COMP
b - S9(04) COMP
c - S9(07) COMP
d - S9(05) COMP-----ans

11 - Which of the following is true about setting up parentage on the segment occurrence?
a - first GU call has to be issued followed by GN call to setup the parentage.
b - only GU call can be used for setting a parentage and not GN call ans
c - either GU call or GN call can be used to setup parentage
d - only GN call can be used to setup parentage and not GU call

12 - The 'D' command code is the only one allowed on DLET call?
a - True+---------ans
b - False

13 - what is the function code with which the GA status code is issued by IMS?
a - GHNP
b - GN-----------ans
c - GU
d - GHU

14 - Qualified GN & GNP call returncode 'GB'indicates? ----------
>End of database reached on GN
call

14 - UNQualified GN & GNP call returncode 'GB'indicates?

a - End of database reached----------ans
b - crossed hierarchy boundary to higher level
c - no parent establised
d - different segment type at same segment level

15 - which of the following is true about the IO area parameter coded in IMS call which retrives only one segment data from the database?
a - IO area must be coded to accommodate the storage necessary for the segments related to the first and second SSA in the call
b - IO area coding is not mandatory
c - IO area must be provided that is large enough to contain the segment type related to the last SSA in the call----------ans
d - IO area must be coded to accommodate the storage necessary for the segment related to the first SSA in the call

16 - if the program being restarted in either a batch region or a BMP region and the checkpoint log records no longer reside on the online log data set (OLDS)
Or system log dat set(SLDS) then specify what is the solution
a - specify the log data set where the checkpoint details may be present through //IMSLOGR DD statement ---------ans
b - program will be unable to restart and hence terminates abnormally
c - program will be unable to restart and hands returns the IMS status code and terminates
d - program enters into the wait state and operator has to cancel it

16 - Consider the XRST cal format XRST IO PCB, I-O area length , I-O area, area1- length , area1. What contains the I-O area after the completion of XRST call?
a - the I-O areaalways contains the 8 character checkpoint ID which is used for the restart
b - if the checkpoint ID is equal to 8 blank character (checkpoint ID not specified for restart) then the IO area contains the 14 character timestamp
c - the I-O area is totally filled with blank characters after the restart call
d - the IO area contains the 8 character job name used for restart and the 14 character timestamp. Ans

16 - XRST call try to reposition all database of the position that we held when the last checkpoint taken. How can this be achieved in IMS DB?
a - by including each PCB and the PCB key feedback area in the checkpoint record
b - issuing XRST will move the PCB key feedback area from one check point record to the corresponding PCB in the PSB is been restarted
c - IMS issues a GU call based on concatenated key in the key feedback area on each active PCB to access the segment that was positioned when the checkpoint was taken and
d - including each PCB and PCB key feedback area in the checkpoint record which was done automatically by the IMS when the checkpoint call is made

17 - when extended restart function is used to restart the execution of a failed program, a GE status code is returned. what could be the reason for this?
a - the call proceeding the checkpoint call could have been a DLET call on the same PCB.
PCB key feedback contains the concatenated key of the deleted segment. When restarted (XRST call) the same concatenated key is used with GU call and this resulted in the GE status code----------ans
b - the segment specified by the concatenated key in the key feedback area of the active PCB could have ----------ans been deleted so another program between the time your program abnormally terminated and got restarted
c - the concatenated key from the key feedback area of the active PCB used by the restart process is not a valid set of key values due to data corruption
d - the IO area used XRST(restart) and created by a prior checkpoint call has no PCB consequently the GU call issued for accessing
in the segment during restart process restarted in GE status code

19 - A typical CHKP call can be:
CALL CBLTDLI USING WS-CHKP
IO-PCB ,IO-AREA-LEN, IO-AREA
IO-AREA-LEN1, IO-AREA1
WS-CHKP contains the function code CHKP. What are the contents of IO-AREA and IO- AREA 1 and how many IO-AREA1 can be assigned in the call.?
a - 7 times
b - 8 times------ans
c - 4 times in single call
d - as many times as required in single call

Which of the below options describe the difference between U and v command codes correctly?
a - V command code avoid necessity for coding and SSA at first level when the function of the U command code is required at each level
b - U command code in in GN call with an qualified SSA restricts the search for the segment to dependence of segment and U command code.
Which V command code in qualified SSA its effect is the same as U command code coded at that level and the levels above it in the hierarchy.
c - U command code in the GN call with and unqualified SSA its effect is the same as U command code coded at that level and the levels above it in the hierarchy.
d - V command code awards and necessity for coding and SSA at each level when the function of the u command code in SSA required at last level

21 - what is the correct command code for below options that can be used to bring more than one segment into the I/O area in a single call?
a - P
b - U
c - F
d - D

22 -

23 - what is the command code that can be used to establish the parentage of a particular level in the
database hierarchy which is different than the parentage identified by the last SSA reference by the call?
a - N
b -
c -
d -

23 - what is the command code that can be used to establish the parentage of a particular level, in the database hierarchy which has different than the parentage identified by the last SSA reference for the call?
a - N
b - U
c - C
d - P

24 - which of the following command code will set parentage in DLI call?
a - U
b - N
c - O
d - P

24 - what are the properties of D and N command codes?
Select one or more.
a - D and N command codes work together to process multiple segments in a single call.
b - the I-O area must be defined large enough to accommodate all the segments being retrieved in the path
c - when D command code is not coded only the segment identified by the first SSA is placed into the IO area-------ans
d - D command code perform a path call, where in DL/I retrieve multiple segments along the retrieval path-------ans
e - N command when coded in SSA, those segments will not be replaced back when replace call is executed.-------ans

24 - The NULL command code ' ' is used in the SSA ___
Select one or more-
a - to treat as if no command code is coded
b - to enable to use the same SSA for more than one purpose
c - to store the command code during program execution
d - to simplify the construction of SSA within the program
e - null command code and 'n' command code are equivalent. Ans

25.IMS call to reteive first occurences in twin chain
a.U
b.V
c.F------------>ANS

d.L

25 - identify from the below options the command code used to issue a path call
a - D command code
b - L command code
c -
d -

26 - Database descriptor specify -
Select one or more
a - complete physical structure of the database with all the segment details within if -------ans
b - complete physical structure of the database with only the segment of the interest of the application
c - DBDGEN(database descriptor generator) is used to create DBD control block-------ans
d - one or more DBD which can be specified for database-------ans

26 - The PSB and the DBD provide the control block definition that IMS uses for managing application programs. The PCB types that can be defined in a PSB are?
Select one or more-
a - The I/O PCB which is automatically generated and provide input output message call support and systems service call support----ans
b - one or more alternate PCB statements for output message distribution call support
c - one or more IMS DB PCB statements for data access call support
d - data PCB which specify the database segments the application program can use and the access for which the program is authorised-----ans
e - address for the AIB, if created for the database-----ans

28 - What is the name of the IMS control block that is used to define the logical relationship between the segments
a - program control block------ans
b - database definition
c - logical segment block-----ans
d - IMS control block

28 - Which of the following are the control blocks in IMS DB environment?
Select one or more.

a- DCB
b - DBD-------ans
c - PCB
d - PSB------ans
e - ACB------ans

29 - A database definition (DBD) specifies__
a - HDAM randomising module
b - name of the physical dataset which holds the database--------ans
c - the access method used-------ans
d - the characteristics of the physical database in the DBMS------ans

29 - the PROCOPT = L or PROCOPT= LS specified in the PCB indicates?
a - database is updated
b - database is loaded
c - database is inserted---------ans
d - all of the above options

29 - which is the correct name of the statement used in PCB definition that is used to specify the field level sensitivity and the field
specified in this statement are limited to those field that are identified in DBD field statement?
a - SENSEG
b - PSBGEN
c - SENFLD
d - DBDGEN-------ans

30 - THE SEGMENTS IN IMS DATABASE CAN BE SECURED FOR SPECIFIC OPERATIONS through?

a -
b -
c -
d -

31 - What is the IMS status code which specify the insert rule voilation?
a - II------ans
b - IJ
c - ID
d - IX

31 - the PCB mask name specified in the entry statement of a cobol program which access and IMS database can be satisfying the following rule ___
a - the order of the PCB mask names in the entry statement must be the same sequence as PCBs specified in the PSB for the program----ans
b - need to specify only one PCB mask on the entry statement which will be applicable for the entire set of pcbs defined in the PSB
c - the PCB mask specification on the entry statement is optional only and hence need not to be specified always
d - mask names can be specified in the entry statement for as many PCBs be specified in the PSB and their order in the entry statement irrelevant

32 - Invoice segment has been defined under the customer segment. The application requires to access the invoice by GN or GNP call in order of the most recent invoice date firstfor a specifies customer.
How will you achive this in IMS DB?
a - Specify a invooce date as negative number (2's complement)----ans
b - Specify the invoice date as sequence field in the invoice segment under a specified customer.
c - Specify the invoice date in 2's complement form and specify it as sequence field
d - Store the invoice data in such a waythat the most recent invoice is stored always first in tha database under a given customer.

33 - What does DL/I Analyzer status code AH Indicates?
a - No Segment I/O area specified in the call
b - Invalid field name specified in qualified SSA
c - SSA qualification format is invalid
d - At least one SSA required for the call

33 - what is the functionality of GNP call ?
a - identical to GU call but limited to the dependent
b - to establish parentage at any segment satisfying the qualified SSA mentioned therein
c - identical to the GN calls but limited to dependent segments only of a previous established parent
d - identical to the GHU call Scott limited to the previous established position in the database

34 - What happens if a GU call is issued by the program between GHU call and DLET call?
a - The Get-Hold call will be nullified and the segment cannot be deleted
b - The concerned segment is deleted from the database
c - The first occurance in the root segment will be deleted-_----_-----ans
d - The last occurance in the root segment will be deleted

34 - which of the following is correct statement regarding the get hold call?
a - the program can make changes to key field value after issuing get hold call
b - the program cannot make changes to key field value after issuing get hold call
c - the program can insert a new key field value
d - the program can make changes to all key fields in the root segments

35 - The status code should be checked after every Dl/I Call?
a - True-----ans
b - False

36 - what are the fields not used by IMS in PCB mask associated with GSAM database?
a - key feedback area
b - segment level number------ans
c - segment name-----ans
d - number of sensitive segments-----ans

36 - in case of working with variable length segments for issuing IMS calls, the application program uses the value in the first 'n' number of bytes to determine how much of the IO area contains usable information
What is the value of 'n'?

a - 8-----ans
b - 1
c - 5
d - 2

37 - what is the unit data transfer from DL/I to an application program?
a - logical record
b - data of fields of interest from one or more segments-------ans
c - control interval in VSAM or a block of QSAM
d - segment data

38 - what is the name of the entity in IMS db that consists of single occurrence of the root segment and type and all of its dependent segment occurrences?
a - parent segment
b - database record--------ans
c - child segment
d - dependent segment

38 - Place the rules of hierarchy sequence in correct order?
A. Top to bottom - Move to a child segment
B. Left to right- move to sibling statement
C. Up and to the right - move to the twin or sibling of the parent

D. Front to Back - move to twin segment
a - A-D-B-C
b - C-D-B-A
c - A-B-C-D
d - B-A-D-C

39 - a number of factors must be considered by the DBA while designing the database, what are the factors about database design that a programmer is concerned with?
a - segment names that a program may access---ans
b - various fields format within the assigned segments--------ans
c - names and formats of the fields used for search including the key field-----ans
d - awareness of database recovery control specified for the database
e - hierarchical relationship of the assigned segments and processing permission on the accessed segments------ans

40 - IMS uses sequence field to identify and provide access __
a - to a particular database record and its segment
b - each segment can have a sequence field normally
c - not every segment type must have a sequence field defined
d - more than one field can be defined as a sequence field within a segment

40 - for HISAM database a reorganisation utility must be run to get the deleted segment space available for re-use?
a - True
b - False

40 - what is the secondary data structure in IMS DB?
Select one or more
a - hierarchical structure of the database is accessed through secondary index
b - if the secondary index points to a root segment the secondary data structure is identical to the main database hierarchy
c - if the target segment is a dependent segment the dependent becomes the root segment in the secondary structure
d - parents of the target segment are inverted and viewed as children children of the target segment remain as children and the secondary data structure appearing to the right of the target parents

e - secondary indexes are not maintained by IMS automatically

41 - while replacing a secondary index source segment if either a search field or a subsequence field is changed IMS perform insert delete and insert against the secondary index in database
a - true-------ans
b - False

42 - what are the Salient features of HIDAM? (Hierarchical index and direct access method)
Select one or more.
a - HIDAM uses index to facilitate random processing
b - index contains the key of the root and its address
c - two DBD are required, one for data area and another one for index area.
d - the index can be processed as a database
e - sequential accessing of the segments do not use the index of pointers

43 - what do we understand from uni-directional logical relationship in logical database?
a - it builds a relationship between the logical child and its logical parent-------ans
b - the logical child is accessible from its logical parent------ans
c - the logical parent can be accessible from logical child------ans
d - the logical parent can access the logical child and vice versa

Doubt --------------
44 - what is meant by ODBM (IMS open database manager)?
a - enable to access IMS database from Java programs anywhere from the enterprise
b - enable access to IMS database from COBOL program anywhere from the enterprise
c - enable access to IMS database from cobol or PL/I programs anywhere from the enterprise

d - enable access to IMS database from COBOL or PL/I or java program anywhere from the enterprise

44 - what types of record format are supported in GSAM related datasets.?
a - fixed record format
b - fixed and variable record format
c -
d -only variable length record format

45 - in an IMS database structure the number of levels are restricted to?
a - 15-------ans
b - 17
c - 18
d - 16

45 - field in an IMS segment specify?
Select one or more?
a - can be used as a key in the segment for ordering segment occurrences------ans
b - piece of data which can be further subdivided
c - single piece of data in a segment------ans
d - multiple field specifies related data in a segment--------ans

46 - GSAM can't useconactenated Datasets -true/False ----> FALSE

47 - Characteristics of IMS batch environment?
a)Batch address space not connected to IMS online control segment-------->ANS
b)Can access only full function database such as HSAM,HDAM etc and not fast path
database as DEBD, MSDB etc-------> ANS
c)Not possible toaccess full function database that are online to IMS online control
segment
d)All IMS codeused by application resides in batch address space where programrunning
--------------->ANS

e)Batch address space opens and reads IMS data set directly------
>ANS

48 - if the database call is to update or delete the segment then
a - the segment is updated or deleted directly in the buffer and progressively returned to DASD
b - the segment must be retrieved first into the buffer before it is updated or deleted in the buffer and progressive written to DASD+------ans
c - segment is directly updated or deleted on the database
d - segment is directly updated or deleted in the allocated segment area within the program

49 - HISAM access method can be used in situations
a - when the database record size is predictable
b - when the database is standalone in the sense that logical link to other databases
c - when the database structure is comparatively simple
d - when there are only limited additions and deletions in the database

50 - Access from dependent to dependent or root to dependent in HD databases is always via?
a - either physical positioning or pointers
b - Pointers-------ans
c - physical positioning of the segments in database record

51 - after issuing a path call by IMS program followed by delete call the program is allowed to reference a single SSA
What is the call type and command code used in the case?
a - get hold call and command D
b - get unique call and command code C
c - get hold call and command code N--------ans
d - get next call and command code N
d - index reference

51 - To 'back-up' to the first segment of a given type within a database record, a GU call with the unqualified
SSA for the desired segment type which will retrieve that segment. Additionally fully qualified SSA for higher level segment may be given but they are not necessary?
a - True------ans
b - False

52 - at any time the position to be established at the first segment in the database and unqualified GU call may be executed.
If call is the very first in the program, a GNP call as well will accomplish the same result ?
a - True
b - False------ans

53 - In update mode status code of 'bb' and 'll' are 'expected and /or reasonable' status code
a - True-------ans
b - False

54 - In IMS DL/I application program execution which of the following options are applicable?
a- an application program may interface with one or more DL/I database.-------ans
b - the program and DL/I are combined in a single problem access space(region)-----ans
c - when data is changed a record of the database modification is written on DL/I system log.--------ans
d - the program and DL/I are contained in separate problem program addressspaces (region)
e - the application program could have interfaces for the file operation and database

55 - which of the following value is represented by status code field in PCB when an IMS call is successful?
a - GB
b - SPACE--------ans
c - GE
d - Zero

56 - in an IMS program multiple segments are retrieved using a get hold path call and replace call is issued with no SSAs
What do you think will happen in the above scenario?
a - data in the last segment retrieved is replaced
b - none of the retrieved segments are replaced
c - data in the first segment retrieved is replaced------ans
d - all the retrieved segments are replaced

56 - The HOSPITAL database has a hierarchy as HOSPITAL --> WARD --> PATIENT --> DOCTOR.
The doctor segment is defined as SEGM as SEGM NAME = DOCTOR, PARENT = parent, bytes= 20 , rules =(HERE)
The doctor segment does not have a key field.
Which of the following below explains the meaning of the insert rule here ?
a - current position is used to determine which in the twin chain does new segment are inserted------ans
b - new segments are inserted after the first segment of the twin chin
c - new segments are inserted at the beginning of the twin chain
d - new segments are inserted at the end of the twin chain

57 - what is the type (fixed or variable) of segments for which are REPL function can be applied?
a - fixed length segments with segment length not more than 500 bytes----------ans
b - fixed length segments only
c -
d -

Format of the XRST call is given here: XRST IO PCB, I-O area length, I-O area , area1-length, area1, area2-length, area 2........
What are the contents of IO area?

Select one or more?
a - 1 to 8 character checkpoint ID from which the program has to restart---------ans
b - 14 character timestamp detail to enable the program to restart from a specific timestamp------ans

c - 4 character LAST indicating that the program has to restart from last checkpoint taken for BMP environment only ------ans
d - pointer indicating the location of data areas where the critical variable contents are stored

HISAM access method can be used in situations
a - when the database record size is predictable----ans
b - when the database is standalone in the sense that logical link to other databases------ans
c - when the database structure is comparatively simple------ans
d - when there are only limited additions and deletions in the database

Access from dependent to dependent or root to dependent in HD databases is always via?
a - either physical positioning or pointers
b - Pointers+--+-----ans
c - physical positioning of the segments in database record
d - index reference

42 - What are the salient features of hierarchy direct databases?
a - deleted segments will be marked as deleted
b - deleted segments will be physically removed from the database-------ans
c - VSAM ESDS or OSAM datasets are used for storage---------ans
d - segments can be inserted or deleted without the path change of other segments

59 - The hospital database has a hierarchy as HOSPITAL --> WARD --> PATIENT. Fully qualified GU call is issued to retrieve a particular patient (PATIENT 1) data .
The call is coded as below in the procedure division
CALL CBLTDLI USING GU
PCB - MASK
PATIENT - IO - AREA
PATIENT - SSA
What is the correct answer for? the below options?

a - the data of the patient 1 in all the WARD segments in the first hospital segment is retrieved --------ans
b - the data of patient 1 in all the WARD segments in all the hospital segments is retrieved
c - the data of the patient 1 in the first WARD segment in the first hospital segment is retrieved
d - the data of the patient 1 in the last WARD segment in the first hospital segment is retrieved

60 - The nTH position of the SSA defined contains a left parenthesis to identify the call as qualified SSA call
What is the correct value of 'n'?
a -
b -
c -
d -

21. AIB defined in working storage of application program?(t or f) -----> **True**

22. Status code check after every DL/I call? (t or f) ------> **True**

27. How access secondary DB in IMS to?

a) By using XDFIELD field

b) By defining PROCOPT=indexed db name in pcb

c) By defining Procesq = index in pcb

d) By defining Procesq = index in pcb

Ans:

a) By using XDFIELD field

b) By defining PROCSEQ = Indexed DB name in PCB

28. ------ to select DB records in sequence other than defined by key field

Ans:

a) Secondary index

29. Unqualified SSA space is in ---- th field

Ans:

a) 9th field

30. How to identify Logical child in db?

a) L-child in psb

b) L-child in pcb

c) L-child in Linkage section

d) L-child in Dbd

Ans:

d) L-child in Dbd

31. False for HDAM access method?

a) Cannot have non unique root segment key

b) Fast access to root

c) Reuse of space

d) Quick access to segment

Ans:

a) Cannot have non unique root segment key

Reference :

Advantages and Disadvantages of the HDAM Access Method

- The principle advantages of the HDAM access method are:
- Fast random access to the root segments, via the randomizing module
- Fast direct access (no index accesses) with few I/O operations
- Quick access to segments in a database record, as IMS attempts to store them in the same, or physically near the, CI or block
- Automatic reuse of space after segment deletions
- Can have non-unique root segment keys

32. In DD statement which is optional in executing DL/I job?

a) Proclib

b) Ims

c) DFSRESLB

d) IEFRDER

Ans:

None of the above

Reference:

DD statements

In addition to whichever of the following DD statements you use, your procedure must include DD statements for database data sets that will not be dynamically allocated.

The following DD statements are required for the DLIBATCH procedure.

- DFSRESLB DD
- DFSVSAMP DD
- IEFRDER DD
- IMS DD
- IMSLOGR DD
- IMSMON DD
- PROCLIB DD
- STEPLIB DD

- SYSABEND DD
- SYSUDUMP DD

The following DD statements are optional for the DLIBATCH procedure.

- DFSHALDB DD
- DFSSTAT DD
- IEFRDER2 DD
- SYSHALDB DD

33. Where to define IO-PCB

a) PSB

b) Linkage section

c) DBD

d) PCB

Ans: IO-PCB is defined in PSB

And IO-PCB Mask is defined in Linkage section.

Answer to question but don't know the exact question:

An HDAM database normally consists of one VSAM entry-sequenced data set (ESDS) or OSAM data set.

HIDAM - The index is stored as a single VSAM KSDS. The database is stored as a VSAM ESDS or OSAM data set.

11. In DBDGEN suppress the listing of matching instructions? (**Question not clear)**
PRINT NOGEN causes the assembler to suppress the listings of machine instructions generated by each macro

13. Status for load same segment twice? → **LB**

14. Status code GK?

New segment type at the same level is retrieved

17. Characteristics of IMS batch environment?

a) **Batch address space not connected to IMS online control segment**

b) **Can access only full function database such as HSAM, HDAM etc and not fast path database as DEBD,MSDB etc**

c) Not possible to access full function database that are online to IMS online control segment

d) **All IMS code used by application resides in batch address space where program running**

e) Batch address space opens and reads IMS dataset directly

18. A field in IMS segment indicates?

- **A segment level field stores the level of the segment that was processed. When a segment is retrieved successfully, the level number of the retrieved segment is stored here.**
- **A segment level field never has a value greater than 15 because that is the maximum number of levels permitted in a DL/I database.**
- **Field is the smallest unit that a DL/I can handle.**
- **Segments can have one or more fields in it.**
- **EACH FIELD WILL HAVE MAX 8 CHARACTER NAME. IMS Supports 1000 Fields.**
- **There are two types of fields –**
    - **Key Fields**
    - **Search Fields**

19. Access method used for HISAM?

- **The access methods that HISAM can use are VSAM and OSAM**
  Below answers are Depend on options
- **Direct access of record by root keys**
- **Sequential access of records**
- **Sequential access of dependent segments**

20. HISAM is specified for? (Question is not clear)

Answer to some question we don't know about segment

SEGMENT (TYPE)

- It is the smallest unit of information DL/I handles
- Within each segment are one or more data fields
- Each 01 level data name defines one of the segments in the Hospital Database
- Each 03 level data name defines one of the fields within a segment
- If an application program requires information only about a segment, it does not even have to know that the other segments exists, or what their relationships are within the database
- Also known as a Segment Type
- Can have up to 255 segment types in a Database record, and up to 15 segment types in any one hierarchical path.

1. Characteristics of GSAM applicable for BSAM/QSAM db?

a) **Symbolic checkpoint call allowed**

b) Symbolic checkpoint call not allowed

c) **Fixed length record allowed**

d) **Variable or undefined record allowed**

e) **Restart from checkpoint allowed**

2. status code of AK? ----------

Field name specified for qualified SSA is incorrectly coded.

3. User abend code U0100?

- Bad checkpoint
- Especially after a U0777 restart using the wrong checkpoint
- Use a previous checkpoint for the restart

4. User abend code U0777?

- Data base contention, operator cancelled
- Restart at last 'unique' checkpoint to avoid duplicate check point on restart.

4. Qualified GN & GNP call return code 'GB' indicates? ----------

End of database is reached or segment not found (Check with options)

5. Component of IMS DL/I call provide information to segment to be retrieved? (Question not clear)

Segment Search Arguments

6. Command code that IMS call not to replace particular segment?

a) C

b) F

c) N

d) D

7. Command code to issue path?

a) V

b) L

c) P

d) D

8. Coding standard for multiple positioning for PCB?

BY DEFINING POS = M IN PCB

9. Maximum number of segment type in db restict to?

255

10. In DBDGEN TYPE=X denotes which datatype?

Hexadecimal data type

66. Which is the statement to be coded in DBD definition that gives name to the segment and specifies the parentage details of the segment?

a) SEGM

b) Segment

c) DBDGEN

d) PSBGEN

Note: If the option is SEG instead of SEGM then the answer is **Segment**

67. The relation between PCB masks defined in the linkage section of cobol program and actual PCB in storage loaded by DL/I is created by the listing of PCBs in the entry statement (t or f)

TRUE

68. An IMS program performs insert operation on a database into segment with no key field. What is the insert rule which indicates that new segment are inserted at the end of the twin chain?

a) any

b) here

c) last (LAST - Says that the new segments will always be inserted at the end of the twin chain.)

d) end

69. IMS continues to address scalability needs by providing the highest possible availability, performance and capacity (t or f) --→ **TRUE**

70. Where is the randomizing module name specified for HDAM database?

a) PSB

b) ACB

c) PCB

d) DBD

34. Types of fast path DB

Ans: Fast Path databases include data entry databases (DEDBs) and main storage databases (MSDBs).

35. GK status for: Different segment type at same level

Ans: True

****

36. DB access which are offline for ----- mode of process

a) all

b) MPP

c)BMP

d) DL/I (ANS)

****

37. Optional parameter IMS call

a) SSA (ANS)

b) IO-area

c)Pcb mask

****

38. Status call will not result in REPL call

a) DJ

b) DA

c) II (ANS)

d) RX

****

39. Type of CHKP call in MPP

a) both

b) none

c) symchkp

d)basic chkp (ANS)

****

40. In xrst call non space in program is indicated at---- position

a) 12 (ANS)

b)9

c) 10

d) 6

****

41. GK status code possible in -------call

a) Qualified GN

b) Unqualified GN (ANS)

c) Unqualified GU

d) qualified GU

****

42. Which statement is correct in DLI jobs?

CALL 'CBLTDLI' USING DLI-GU

PCB Mask

Segment I/O Area

[Segment Search Arguments]

****

PROCOPT - is the processing options of the program on that DB.

Examples:

G - Read-Only Access

I - Insert Allowed

R - Read/replace Access

D - Read/Delete Access

A - All Access

LS - Load Sequential in GSAM (HIDAM)

GS - Get Sequential in GSAM

****

44. -------- to logically end Ims application by releasing resources from IMS

a) Stop Run

b) Go Back (ANS)

c) none

****

45. Max. of secondary index in single ims db

a) 1000 ------- ans

b) 100

c) 500

d) 750

46. Sibling segment define

Sibling segments are the segments of different types and the same parent

47. Twin segment

Twin segments are the segments of same types and the same parent

47. Rules parameter is used in

a) DBD

b) PSB

c) ACB

d) PCB

48. Role of ims transaction manager?

- **Process input messages received from a variety of sources, such as the terminal network, other IMS systems, WebSphere® MQ, and the web**

- **Process output messages that are created by application programs**
- **Provide an underlying queueing mechanism for handling these messages**
- **Provide interfaces to the TCP/IP network (IMS Connect)**
- **Provide high-volume, high-performance, high-capacity, low-cost transaction processing for both IMS DB hierarchical databases and DB2® relational databases**

49. IMS call to reset PCB Pointer?
a) GN
b) GNP
c) GU---→ANS
d) GHU

50. Max.no of data area in symbolic check point is
a) 8
b) 7 ----ANS
c) 6
d) 5

51. All files used for checkpoint and restart must be
a) Related to any IMS database files
b) Related to only GSAM database files
c) Related to HDAM & GSAM database only
d) Related to HSAM &GSAM database only

52. What is the function code with which the GA status code is issued by IMS?
a) GN
b) GHNP
c) GHU
d) GU

53. Functions of symbolic checkpoint call
a) Commit changes program has made to database
b) Establish places in programs from where program can be restarted it
c) To save as many as seven data area containing critical data which are restored when program is restarted
d) An XRST call with blank checkpoint Id is required to execute prior to CHKP call to indicate IMS that symbolic checkpoint is taken

55. Status code for successful
BLANKS

1)HIDAM database is actually made up of 2 databases - the main database & index .What type of database was used for them?

a.index is VSAM KSDS & main VSAM ESDS or OSAM---------->ANS

b.index is VSAM ESDS & main VSAM kSDS

c.Both are VSAM KSDS

d.Both are VSAM ESDS

2)Which of the below command code is used to perform the function of U command code in higher level SSA's?

a.D

b.N

c.V---------->ANS

d.F

3)An IMS program has issued a DLET Call but rejected to proceed it with GH command and code is?

a.DA--------->try to modify key field

b.Dx

c.DJ---------->ANs

d.RX

4)Access from dependent to dependent or root to dependent in HD databases ia always via____

a.external physical positioning or pointers

b.index reference

c.pointers---------->ANS

d.physical positioning of segments in database record

5)After segement is accessed with GH calls prior to replace call, user can modify

a.all field data within segment

b.any of sensitive field segment except sequence field---------->ANS

c.entire segment data can be modified and replaced database

d.segemnt entirely modified and written series replace is equivalent to delete and then insert

6)InvOICE segment has been defined under CUSTOMER segment.The application require to access the INVOICE by GN or GNP call in order to the most recent invoice data first for a specified customer.How will you achieve in IMs?

a.specify invoice data as a sequence field in invoice segment under a specified customer-→ANS

b.specify invoice data as a negative number 2's complement

c.specify invoice data in 2's complement form and specify it as a sequence field

d.store the invoice data in such a way that the most recent invoice is stored always first in the database under given customer

7)what are the fields NOT used by IMS in PCB mask associated with GSAM DB?

a.KFA

b.Segement level number---------->ANS

c.Segment name---------->ANS

d.No of sensitive segments---------->ANS

8)AC - hierarchical error on insert or get call

AI - error while opening database of all calls

DA - REPL or DLET attempted to change segment key field

9) Hospital - ward- patient

a.Series of GN calls

b.Qualified GU call followed by GN call till EOP encountered

c.qualified GU call followed by GNP call---------->ANS

d.series of GNp calls

10) AH - invalid SSA encountered on insert call

AJ - SSA specified for the call is invalid

AM - function specified is not compatible with one of segment sensitivity, program type, or PCB processing

IX - insert rule violation

AO - a physical I/O error has occurred

11)ISRT call is of two types of operations 1. For initial load 2.To add new segements

a.L for initial load & G for adding new segments

b.L for initial load & G for adding new segments

c.LS for initial load & A for adding new segments

d.L for initial load & I for adding new segments---------->ANS

12)GU call is issued which has no SSA's used

a.IMS assumes a fully qualified call & retrieves the data from last segment of DB record

b.IMS assumes a fully qualified call & retrieves the data from all segments of entire DB keeping prior hiearachy

c.IMs assumes a fully qualified call & retrieves the data from all segments of DB record

d.IMS assumes SSA for root segment & retrieves the first occurence of root segment---------->ANS

13)User abend U0476 pgm storage area of the PCB(check box)

a.PSB language specified in PSB is the same as language used in pgm---------->The PSB language specified is not the same as that of the application program.

b.Number & order of the PCB in PSB match with number and order specified in the pgm---->ANS

c.In a COBOL pgm, linkage section must have a 01 level coded for each PCB in PSB---------->ANS

d.The address of PCB in pgm has been overloaded in pgm---------->ANS

e.DBD name specified in PSB either missing or compared in DBDLIB

14) DBD specifies (check box)

a.HDAM randomizing module----------->ANS(doubt)

b.access method used----------->ANS

c.name of physical dataset which hold the databases----------->ANS

d.Characterisitics of dataset to DBMS----------->ANS

Notes:

To create a db:

DB name

segment name

key field name, length, location

search field name length,location

15)what function code with GA status code is issued by IMS?

a.GU

b.GHU

c.GN----------->ANS

d.GHNP

16)HDAM databases consists of signle dataset (checkbox)

a.which is VSAM/ESDS or OSAM----->ANS

b.Not addressable contain root segement & all its dependent segment occurence

17)if after issuing a get hold call, the pgm determine that it is not necessary to change or delete the retrieved segment.what will happen to the segement field by previous GH call?

a.Segment remain in locked condition & has to be released explicitly by RLSE call before it becomes available for access for other call

b.Pgm can proceed further as its a normal GET call without hold----------->ANS

c.Any other call executed after GH on the same PCB will be releasing the HOLd----------->ANS

d.Any other call executed on any PCB or the DB will be releasing HOLD condition

18)pointers are used in hierarchial direct DB--→TRUE

CHECKPOINT(CHKP) CALL

A point in the execution of program when, the changes made to the database are considered complete and accurate. Once checkpointed, the changes made are not reversible. A CHKP call causes the database position for a PCB to be reset, apart from releasing all the locks held by program. A CHKP call is of two types:

1) BASIC CHECKPOINT CALL

Can be issued by a BATCH and BMP programs. MPP and Message Driven Fast Path programs must issue only this call. Apart from committing changes made to the data, it also establishes position in the

program from where to Restart, in case the program abnormally terminates

CALL 'CBLTDLI' USING CHKP

I-O PCB MASK

CHECKPOINT-ID

The I-O PCB must be the first PCB listed on the ENTRY statement normally used for data communication programs. Checkpoint-ID names a I-O area that contains an Eightbyte value to identify a checkpoint record written to the log file. During recovery, this eight byte Checkpoint-ID is used by IMS to Restart the program.

2)SYMBOLIC CHECKPOINT CALL

Can be issued by a BATCH and BMP program. Apart from committing changes made to the database, it also establishes position in the program from where to Restart, in case the program abnormally terminates. The program can also save as many as SEVEN PAIRS of data area along with the checkpoint record. These data areas are restored during the program restart. A symbolic checkpoint call works with the Extended Restart (XRST) call to restart the program.

CALL 'CBLTDLI' USING CHKP

I-O PCB MASK

CHECKPOINT-ID

FIRST-AREA-LENGTH

FIRST-IO-AREA

SECOND-AREA-LENGTH

SECOND-IO-AREA

SEVENTH-AREA-LENGTH

SEVENTH-IO-AREA

RESTART CALL (XRST)

The program that issued a symbolic checkpoint CHKP call must issue a restart call (XRST). The XRST call, which is issued only once, does not have to be the first call issued in the program, though it must be issued before any CHKP call. Whether a program is to be restarted or not is determined by DL/I with the help of PARM parameter specified in the EXEC statement for the program in the execution JCL or the CheckPoint ID provided in the Restart Work Area.If a program is to be Restarted, the XRST call indicates that the following checkpoint call is a symbolic checkpoint. Any calls issued before the XRST call are not within the scope of Restart.

CALL 'CBLTDLI' USING XRST

I-O PCB MASK

Longest Segment Length

Restart-Work-Area

First-Area-Length

First-IO-Area

Seventh-Area-Length

Seventh-IO-Area

To determine whether to perform a normal start or a restart, IMS evaluates the I/O area provided by the XRST call or CKPTID= value in the PARM field on the EXEC statement in your program's JCL.

Starting your program normally

When you are starting your program normally, the I/O area pointed to in the XRST call must contain blanks and the CKPTID= value in the PARM field must be nulls. This indicates to IMS that subsequent CHKP calls are symbolic checkpoints rather than basic checkpoints. Your program should test the I/O area after issuing the XRST call. IMS does not change the area when you are starting the program normally. However, an altered I/O area indicates that you are restarting your program. Consequently, your program must handle the specified data areas that were previously saved and that are now restored.

Restarting your program

You can restart the program from a symbolic checkpoint taken during a previous execution of the program. The checkpoint used to perform the restart can be identified by entering the checkpoint ID either in the I/O area pointed to by the XRST call (left-most justified, with the rest of the area containing blanks) or by specifying the ID in the CKPTID= field of the PARM= parameter on the EXEC statement in your program's JCL. (If you supply both, IMS uses the CKPTID= value specified in the parameter field of the EXEC statement.)

The ID specified can be:

- A 1- to 8-character extended checkpoint ID.
- A 14-character "time stamp" ID from message DFS0540I, where:
    - IIII is the region ID.
    - DDD is the day of the year.
    - HHMMSST is the time in hours, minutes, seconds, and tenth of a second.
- The 4-character constant "LAST". (BMPs only: this indicates to IMS that the last completed checkpoint issued by the BMP will be used for restarting the program.)

At completion of the XRST call the I/O area always contains the 8-character checkpoint ID used for the restart. An exception exists when the checkpoint ID is equal to 8 blank characters; the I/O area then contains a 14-character time stamp (IIIIDDDHHMMSST).

Position in the database after issuing XRST

The XRST call attempts to reposition all databases to the position that was held when the last checkpoint was taken. This is done by including each PCB and PCB key feedback area in the checkpoint record. Issuing XRST causes the key feedback area from the PCB in the checkpoint record to be moved to the corresponding PCB in the PSB that is being restarted. Then IMS issues a GU call, qualified with the concatenated key (using the C command code), for each PCB that held a position when the checkpoint was taken.

After the XRST call, the PCB reflects the results of the GU repositioning call, not the value that was present when the checkpoint was taken. The GU call is not made if the PCB did not hold a position on a root or lower-level segment when the checkpoint was taken. A GE status code in the PCB means that the GU for the concatenated key was not fully satisfied. The segment name, segment level, and key feedback length in the PCB reflect the last level that was satisfied on the GU call. A GE status code can occur because IMS is unable to find a segment that satisfies the segment search argument that is associated with a Get call for one of the following reasons:

- The call preceding the checkpoint call was a DLET call issued against the same PCB. In this case, the position is correct because the position after the Get call does not find its target is the same position that would exist following the DLET call.

  Restriction: Avoid taking a checkpoint immediately after a DLET call.

- The segment was deleted by another application program between the time your program terminated abnormally and the time you restarted your program. A GN call issued after the restart returns the first segment that follows the deleted segment or segments.

20)XRST call try to reposition all database to the position that were hold when last CHKP is taken (CHECK box)

a.By including each PCB's PCB key feedback area in chKPT record---------->ANS

b.Using XRST call will move the PCB key feedback area from CHKP record to the corresponding PCB in PSB that is to be restarted---------->ANS

c.IMS issues a GU call based on concatenated key in KFA on each active PCB's to access the segment that was positioned---------->ANS

d.introduce each PCB & PCB key feedback area in CHKP record which is done automatically when CHKP call is made

71. What is the language interface module(DFSRRC00) used for?

Under IMS, the Batch Initialization Module DFSRRC00 is invoked via JCL which in turn loads the application program and the DL/I modules required to service it.

73. More than one purpose by dynamically modifying SSA

a) null command code---------->ANS

b) F

c) U

d) V

75. Characteristics of HISAM

a) Parent and child will be stored in physical sequence---------->ANS

b) Overflow area maintain for addition of segment ---------->ANS

c) DASD space is reusable when segment are deleted

d) Pointer are used when dependent segment stored in overflow area---------->ANS

76. ACB (select one or more)

a) Pre-built or dynamically created for online application

b) Combines DBD and PSB into executable load module---------->ANS

c) ACBs are pre or dynamically built for batch application---------->ANS

d) ACB is to be pre-built for online application---------->ANS

77. Sequential retrival of the data from IMS db?

a) GU

b) GU with SSA

c) GN---------->ANS

d) GU with no SSA

78. Solution for SB37 abend for GSAM file processing

a) Out of space error---------->ANS

b) Add new VOL= SER= XXXXXX to pool of pack---------->ANS

c) Change secondary allocation space quantity---------->ANS

d) Wrong record format in JCL and disk has I/O failure

79. Command for path call ---------->D

80. Command for call not to replace a particular segment ---------->N

82. Why IMS is heterogenous?

a) DL/I interface separate data from application---------->ANS

b) Application can be development on workstate and run in host environment

c) IMS application can running on Linux environment and access IMS data using IMS connect---------->ANS

d) IMS enterprise suite SOA gateway enable IMS application to provide web service independent of platform, environment, language and program model----->ANS

83. Path in ims db is defined as

A path is a route line that Begins at the Root segment, travels through the segments at Intermediate levels in the hierarchy and Ends at a segment in the Bottom of the hierarchy

84. Qualified GN & GNP call return code 'GB' indicates? ---------->GB - End of database is reached

Additional informations:

When issued without SSA's (unqualified GN call) three values are returned

GA - Moved up in level to retrieve the segment

GK - New segment type at the same level is retrieved

GB - End of database is reached

When issued with Unqualified SSA's (Qualified GN call) one value is returned

GB - End of database is reached

When issued with qualified SSA's (Qualified GN call) two values are returned

BLANK - Segment successfully retrieved

GE - Segments not found following the current position

Note

The above status codes do not indicate error conditions

Each GN call that retrieves a segment of the same type, or retrieves a segment lower in the hierarchy than the last one will return a BLANK status code.

GA does not tell how many levels up, the position moved since the last call.

One more GN call after returning a GB status code, DL/I will position itself at the beginning of the database.

85. Status for load same segment twice? ---------->LB

SRT CALL (LOAD MODE) - STATUS CODES

LB - When you try to load the same segment twice i.e. segment already exists

LC - The segments being loaded are not in their Hierarchical sequence i.e. key values out of sequence

LD - No parent for the segments being loaded. You cannot load a dependant segment until its parent has been loaded.

LE - Segment types out of sequence. For example: - If you tried to load a facility segment before a patient segment.

87. Db record in IMS defined as

a) A root segment occurrence with all direct child segment occurrence

b) All occurrence of root segment with dependent segment occurrence

c) Only root segment with all dependent segment occurrence

d) A root segment occurrence with all dependent segment occurrence--------->ANS

88. User abend U0826 occurred indicating IMS unable to open index database. What will be response to solve error

a) Check with DBA

b) Check existence of index db dataset---------->ANS

c) Check with index db DD name correct---------->ANS

d) Check buffer size specified large enough to hold data---------->ANS

e) Check index db name correct---------->ANS

89. Correct regarding GH retrival call.

a) Get hold retrival call program to issue GNP call in succession to it

b) Get hold retrival call program to issue DLET call in succession to it

c) Get hold retrival call program to issue REPL call in succession to it

d) Get hold retival call may not required program to issue DLET or REPL call in succession to it. If any other call is issued effect of get hold is nullified and treated as simple get call.----------->ANS

important user abend codes:

U0100 - Bad checkpoint

- Especially after a U0777 restart using the wrong

checkpoint

- Use a previous checkpoint for the restart

U0844 - This is a data base full error. Check the DBDLIB that you

using to make sure it is the correct one. Also check on

how many records you are adding/inserting .

U0475 - Usually occurs when you attempt a checkpoint call without

doing a restart call first.

41. staus code returned by IMS when pgm tries to load same segment twice.

a.LD

b.LB

c. LC

d. LE

ans: LB

42. HISAM stores root sgment & many dependent segment as possible in-

a. KSDS & fd primary & one rd low rec in second KDS

b. KSDS & OSAM

c. QSAM & OSAM

d. KSDs & ESDS

ans:d

43. logical relation between two segmnts is defined in

a. PCB

b. Database record

c. logical seq block

d. IMS DBD

ans:d

44. HDAM databases consists of a single DS (Check box)

a. VSAM/ESDS OR OSAM----------ANS

b. VSAM/KSDS OR OSAM

c. DS- Root adressable

- one sd low

d. root adressable - root segment occur

- dependent

46. always input from one GSAM DB & o/p to another GSAM DB

a. true

b. false

Ans:true

48. which parameters is coded checking PSB gen to generate 10 PCB which needs to be used with CHKP, XRST calls?

a. CMPAT = N

b. CMPAT = Y---------->ANS

c. DBRC = Y

d. DBRC = Y & CMPAT = N.

49. IMS call not toreplace a particular segmwent

a.D

b.F

c. C

d. N

ans-d

50. PROCOPT used to insert DB in insert mode & asc.seq

a. I

b. IS

c.L

d. Ls

ans-b

51. What are properties of D & N command codes?

d-to retrive or insert sequenceof segments in heirarachy path rathr than separate call

n-not to replace a partiitcular segment on the path call

The N command code prevents you from replacing a segment on a path call**. In conjunction with the D command code, it lets the application program to process multiple segments using one call. Alone, the D command code retrieves a path of segments in your I/O area. With the N command code, the D command code lets you distinguish which segments you want to replace**.

You can use the D command code to retrieve or insert a sequence of segments in a hierarchic path with one call rather than retrieving or inserting each segment with a separate call. A call that uses the D command code is called a *path call*.

52. IMS call to reteive first occurences in twin chain

a. U

b.V

c. F

d. L

ans-f

54. Function code- GA staus code is issued by ims.

a. GN------------------------->ANS

b.GHU

c. GHNP

d.GU

1) What are the fields NOT used by the IMS in PCB mask associated with GSAM Database?

a. Key feedabck area

b.segment level number

c.segment name

d.number of sensitive segments

ans-b,c,d

2)segment definition specifies

a.sensitivity of the segment to the application

b.total length of the segment

c.internal representation of data within segment

d.category of related data within a segment

3)I-O PCB normally used for

a.only for terminal Io

b.for terminal IO and some DB calls like CHKP, XRST and LOG

c.only for testing online programs

d.only for conversion to online from batch processing

4)How can the output record tobe written in a GSAM database?

a.can write output record anywhere in the DB as per key sequence order

b.can write output record to the end of the DB

c.can write output record to as per Record Searching Argument(RSA)

d.can write output record to the beginning of DB

7)Correct definition of number of segements field in PCB-mask defined in COBOL?

a. PIC S9(05) Comp

b. PIC x(04)

c. PIC 9(04)V 99

a. PIC A(04)

ans : a

8)Reason for code U0853?

a.the PSB used by the program is invalid or corrupted

b.using a wrong DB

c.After a reorg, use Old DB with the new DBD or vice versa

d. PSB needs to be restarted

d.Using corrupted DB-----→ANS

9)What is the solution for SB37 abend for GSAM file processing?

a.This is an out of space error

b.Add a new VOl=SER=XXXXXX the to your pool of packs so that the Dataset corresponding to this new pack

c.May also change the secondary allocation space quantity

d.Wrong record format specified in JCL and the file has an IO failure

10)An application program issued an IMs call and retrieved to expected data from the segments of DB, what is the name of the area that contains key of the last segment incountered satisfying the field of the call and indicating the details of the path of the call?

a.SSA

b.function code

c.key feedback area---------->ANS

d. PCB mask

e. PSB mask

11)what is DL/I?

a.DL/I is a programming language

b.DL/I is a set of modules interface (DB menu/ T.M.) and the application process

c.DL/I is a command level language and it is external to the application program

d.DL/I can be used in both online and batch programming

ans-b,c,d

12)LC status Code?

Ans : attempt to load a segment out of sequence.

15)While coding PCB ina program , which field indicate the level of segment that is just processed?

a.DL/I-SEQ

b.status-Code

c.PROC- option

d.SEG-LEVEL----------->ANS

16)Control blocks for IMS-DB environment

pcb

dbd

17)The AIB is defined in working storage - TRUE

18)which of the below combination of command codes is used to allow the program to process multiple segments using a single call?

a.C and N

b.D and N----------->ANS

c.F and U

d.D and U

19)L and LS

Ans: L – load, LS – load in ascending sequence

20) when involving CHKP or XRST function in program, the PCB must specified should be_____

a.Related to DB-PCB followed by IO-PCB

b.Related to both DB-PCB's and Io-PCB specified in mixed manner

c.Related to only a single IO-PCB

d.Related to IO-PCB followed by DB-PCB----------->ANS

21)Which of the below is correct definition of key length in the PCB mask data structure in COBOL?

a.S9(04) Comp

b.S9(07) Comp

c.S9(08) comp

d.S9(05) comp

Ans : d

1. Characteristics of GSAM applicable for BSAM/QSAM db?

a) Symbolic checkpoint call allowed(ANS)

b) Symbolic checkpoint call not allowed

c) Fixed length record allowed(ANS)

d) Variable or undefined record allowed(ANS)

e) Restart from checkpoint allowed(ANS)

2. Match PROCOPT parameter

G 1. Enable exclusive use of segment --------- e

I 2. To add data --------- i

R 3. Access segment read only mode --------- g

O 4. To update segment --------- r

E 5. Read without integrity pgm processing ------- o

3. True about PCB mask parameter in IMS call

a. PCB mask is a first parameter required in IMS call

b. PCB mask paramete is included in the call even if programm access only one PCB or more than one----------true

c. It is required in the call only if programm access multiple PCB's d. It is required only when one PCB is accessed by IMS programm

4. When extended restart function is used to restart the exicution of a failed programm, a GE status code is returned.

a. Call preciding CHFP could have been a DLFT call on same PCB.

b. Segment specified by concatenated key in the key feed back area of active pcb could be deleted by other programm.

c. Active PCB key are used by restart is not a valid set of key.

d. Area used XRST & created by a priof CHKP call has no data related to PCB.

5. Invalid get hold call

a. GHP----------ans

b. GHNP

c. GHN

d. GHU

6. Segment in an IMS DB can be secured for specific operations through

a. Programm

b. DBD

c. PSB

d. PCB----------ans

7. At any time the position is to be established at first segment in DB, an unqualified GU call may be executed if call is the very first in the programm, a GNP call as well will accomplish same result.

a. True

B. False (ANS)

8. Prior to the execution of any application programm from an address space.(CHOOSE MULTIPLE OPTIONS)doubt

a. check and adequate bubuffer availability for DB---------->ANS

b. required DBD & PSB must be loged in addess space---------->ANS

c. DB ds must exist---------->ANS

d. DL/I region controller DFSRRC00 is loaded in address space from sys lib---------->ANS

9. Call success----Space

10. U0688

a. IMS ctrl programm is down and must be restored bfore any BMP proccessing done----------ANS

b. DB has been in stopped condition

c. Region parm on a batch job is too small for programm to execute

d. DB contention and hence operator cancelled

10. Not a valid syntax for command code in IMS call

a. ward *PD

b. ward *D(ward no = 4)

c. ward *D

d. ward *D wardno = 4---------->ANS

11. Get unique('GUBB')(CHOOSE MULTIPLE OPTIONS)

a. always returns first sequence in db that satisfied the qualifications----------Ans

b. access the next sequence record which satisfies unqualified SSA

c. retrives a specific segment occurence independent of current position----------Ans

d. used for establishing POS within DB----------Ans

12. GUBB & GHUB are used to retrieve a specific seg occurence independent of current position within DB qualified SSA identifying each hierachical level are normally provided. what happens when there are missing levels without qualified SSA in the call

a. unqualified SSA may be assumed for missing levels---------- ans(doubt)

b. current contol block into available for missing levels can be used

c. always returns first segment in DB that satisfies qualification

d. missing levels are not permitted

13. ACBGEN process(CHOOSE MULTIPLE OPTIONS)

a. stores internal format of PSB/DSB in ACBLAB

b. verifies the existence of DBDS----------ans

c. verifies key lenghth parameter----------ans

d. verifies PSB-PCB-DBD existence and compatibility----------ans(doubt)

14. Status code return after ISRT call to specify that no parent for segment being loaded exist

a. LB

b. LD----------ans

c. LE

d. LC

15.After the segment is accessed with a GET hold call, prior to a replace call user can madify

a. all field data within segment

b. any of the sensetive field data in segment except sequence field----------ans

c. entire segment data can be modified and replace in DB

d. segment entirely modified and written since replace is required to DEL & INSRT

16 In IMS DL/I application program execution which of the following options are applicable?(CHOOSE MULTIPLE OPTIONS)

a. application could have interfaces for file operations and DB operations

b. application programm may interface with one or more DL/I DB-----→ANS

c. pgm & DL/I are contained in separete programm address spaces

d. pgm & DL/I are contained in single programm address spaces-----→ANS

e. when data is changed, a record of the db modification is written on PL/I system log. -----→ANS

17.number of factors must be considered by DBD while designing in DBD.(CHOOSE MULTIPLE OPTIONS)

a. hierarchical relationshipes of the accessed segments and processing permissions on accessed segment-------ANS

b. name and format---------->ANS

c. segment name---------->ANS

d. various field formates---------->ANS

e. awareness of DB recovery control specified for DB

18. U0047 abend.(CHOOSE MULTIPLE OPTIONS)

a. one of the DB PCB faild to obtained DBR (authorization for DB)----------ans

b. bring down DB using IMS command/DBR DB(data base name)----------ans

c. wait till contending job completes ----------ans

d. restart job which failed after starting DB----------→ANS

e. first stop DB by using IMS command/STOP DB (DB name) & then start DB/start(DB name)

19. PROCOPT = K in PSB----------> field level sensitivity

20. type of segment for which REPL function can be applied?

a. FL OR VL.----------ANS

b. FL seg only

c. FL seg with seg lenght not more than 500 bytes

d. VL seg only.

21. Command code for not to replace perticular segment ----N

22. IMS programm performs insert operations on a DB into segment with no key field.

a. FIRST----------for begining

b. HERE----------for current location

c. ANY

d. LAST----------for end

23. HDAM access is efficient beacause.(CHOOSE MULTIPLE OPTIONS)

a. randomizing routien to locate the record ---------->ANS

b. free space is generated when root segment is deleted with all it's dependent segment deleted ---->ANS

c. uses an index on the root key to locate record

d. free space when root segment deleted and dependent segment not deleted but marked as a deleted

e. results in the smallest number of synonyms

24. salient features of HSAM.(CHOOSE MULTIPLE OPTIONS) (check box)

a. dependent segment stored in the hierarchical sequence----------->ANS

b. record format is fixed or variable.

c. for each segment, ims creates a 2 byte prefix consisting of a segment code & a del byte at the beggining of the segment.-->ANS

d. segment in each record are stored physically adjacent to DB.---------->ANS

25. PCB has variable portion of PCB.

a. segment name

b. segment level.

c. concatenated key area-------→ANS

d. DBD name

26. Nth position os SSA definition contains a left parenthisis to identify call as qualified SSa call. correct value of n.

a. 7

b. 8

c. 10

d. 9----------ans

27. U0100 - bad checkpoint.

28. purpose of DLI in IMS. (check box)

a.Enables the separation of app code from data.

b. enables app pgm access & navigate through data by using DL/I standard callable services.

c. non redundency of data.

d. multiple apps can access & update single instance of data.

e.ensures secured access to data in DB.

Ans:all

30. What are calls for which an IO pcb req calls.

a. CHKP & XRST

b. CHKP & XRST. INQY, SETS &sys service calls---→ANS

c. only SSC

d. CHKP ,XRST,UPDt.

31. First occurence ans)F.

32. SB37 abend code for a GSAM file.

a. vol----------ans

b. out of space .----------ANS

c. secondary allocation.----------ANS

d. RECFM in JCL.

33. Hosp- ward- patient

a.Qualified by GU by GN.

34. Implications of secondary indexes & logical relationsships in IMS.

Limitations on secondary indices

• 32 secondary indices on one segment type

• 1000 secondary indices for a database

• Secondary index is a special kind of logical relationship

• The pointer goes between databases rather than within one

database

• Invisible to the application

• PROCSEQ= in the PCB tells IMS to use the secondary index

for access

• Can have PROCSEQ= and normal PCBs in the same PSB

• Application must use the XDFLD name in the SSA

• If it uses the field name it will cause sequential scanning

36. IRLM is delivered as part of IMs production. how IRLM used for IMS Env (check box)

a. SYSplex----------ans

b.z/os----------ans

if data sharing is used

On the same z/OS system, you need only one IRLM.

Of different release levels on the same z/OS system, you can have one IRLM or you can use two or more IRLM address spaces. If two or more IMS systems share data and are running on the same z/OS system, they should use the same IRLM.

On different z/OS systems for inter-processor block-level data sharing, you must have one IRLM on each z/OS system

37. HIDAM DB is made of 2 database main DB & index.what type of DB are used for dese:

a. Both VSAM & KSDS

b. I is VK & M in VE or 0.---------->ANS

c. I is VE & M in VE

d. I is VE & M in Vk

The index is stored as a single VSAM KSDS & The database is stored as a VSAM ESDS or OSAM data set

38. PROCOPT to insert in DB in Asec. SEq.-

G get

I insert

R get and replace

D get and delete

A get, insert, replace, and delete

P required if the D command code is to be used

O do not perform integrity checks for read only processing

must be specified as GO, GON, GONP, GOT, GOTP, or GOP

N do not abend on invalid pointer, return GG instead

must be specified as GON, GONH, or GONP

T same as N but automatically retries before returning GG

must be specified as GOT, GOTH, or GOTP

E enable exclusive use by online program

L load

GS get in ascending sequence (hsam only)

LS load in ascending sequence (hidam or hdam only)

H use high speed sequential processing

39. No. of bytes for a function code in IMS call.- 4

40.parameter DBRC=Y with CHKP& XRST calls.----------specifies checkpoint data of blanks.