



**CBRT - 2018
Question Paper Grid**

Government of Goa

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Set Name

Subjects

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Assistant Professor(Computer Science)

Itemcode : **PC1051**

Q1 : Tripitakas are the sacred books of the

- (a) Jains
- (b) Hindus
- (c) Muslims
- (d) Buddhists

Itemcode : **PC1052**

Q2 : Mohenjodaro is situated in

- (a) The province of Sindh in Pakistan
- (b) In the State of Gujarat in India
- (c) In the State of Punjab in India
- (d) In Afghanistan

Itemcode : **PC1053**

Q3 : The greatest Portuguese governor in the east who laid the real foundation of Portuguese power in India was

- (a) Almedia
- (b) Albuquerque
- (c) Francis Drake
- (d) Vasco de Gama

Itemcode : **PC1054**

Q4 : Who was the author of Gita Rahasya?

- (a) Ramakrishna Paramahansa
- (b) Vijayaraghavachariar
- (c) Bal Gangadhar Tilak
- (d) Vivekananda

Itemcode : **PC1055**

Q5 : What was the ultimate goal of Gandhi's Salt Satyagraha?

- (a) Repeal of salt laws
- (b) Curtailment of the government's power
- (c) Economic relief to the common people
- (d) Purna swaraj for India

Itemcode : **PC1056**

Q6 : The Length of India's coastline is about

- (a) 7,500 km.
- (b) 5,900 km
- (c) 7,000km
- (d) 6,100 km

Itemcode : **PC1057**

Q7 : Which area of India receives the least rainfall?

- (a) Ladakh
- (b) The Western Ghats
- (c) Eastern Rajasthan
- (d) Western Tamil Nadu

Itemcode : **PC1058**

Q8 : Which of the following major sea ports of India does not have a natural harbour?

- (a) Mumbai
- (b) Cochin
- (c) Mormugao
- (d) Paradeep

Itemcode : **PC1059**

Q9 : What is the chief source of political power in India?

- (a) People
- (b) the Constitution
- (c) the Parliament
- (d) State legislature

Itemcode : **PC1060**

Q10 How many members of the Rajya Sabha can be nominated by the President from amongst persons who have distinguished themselves in art, literature, social service etc.?

- (a) 2
- (b) 10
- (c) 12
- (d) none

Itemcode : **PC1041**

Q11 Choose the correct alternative
: Melt: Liquid: : Freeze : ?

- (a) Ice
- (b) Condense
- (c) Solid
- (d) Crystal

Itemcode : **PC1042**

Q12 Choose the correct alternative
: Acting: Theatre:: Gambling : ?

- (a) Casino
- (b) Club
- (c) Bar
- (d) Gymn

Itemcode : **PC1043**

Q13 Select the best alternative
: Professor : Lecture :: Doctor : ?

- (a) Hospital
- (b) Disease
- (c) Medicine
- (d) Patient

Itemcode : **PC1044**

Q14 Choose out the odd one
:

- (a) Axe
- (b) Sword
- (c) Knife
- (d) Showel

Itemcode : **PC1045**

Q15 Choose out the odd one
:

- (a) Island
- (b) Coast
- (c) Oasis
- (d) Harbour

Itemcode : **PC1046**

Q16 Choose the correct alternative that will continue the same pattern and fill in the blank spaces
: 19, 2, 38, 3, 114, 4, (??)

- (a) 228
- (b) 256
- (c) 352
- (d) 456

Itemcode : **PC1047**

Q17 Choose the missing term out of the given alternatives
:

U, O, I, ?, A

- (a) E
- (b) C
- (c) S
- (d) G

Itemcode : **PC1048**

Q18 Choose the missing term out of the given alternatives
: Z, L, X, J, V, H, T, F, ?, ?

- (a) R, D
- (b) R, E
- (c) S, E
- (d) Q, D

Itemcode : **PC1049**

Q19 In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative

Abc-d-bc-d-b-cda

- (a) bacde
- (b) cdabe
- (c) dacab
- (d) decdb

Itemcode : **PC1050**

Q20 If in a certain language NATURE is coded as MASUQE, how is FLOWER coded in that code?

- (a) FBMJND
- (b) FZMHND
- (c) GANIOE
- (d) EALIME

Itemcode : **PC1001**

Q21 Choose the most appropriate Preposition:
: The mother was anxious _____ the safety of her son.

- (a) At
- (b) About
- (c) For
- (d) Upon

Itemcode : **PC1002**

Q22 Choose the most appropriate Preposition:
: There is no exception _____ this rule.

- (a) In
- (b) To
- (c) For
- (d) About

Itemcode : **PC1003**

Q23 Choose the exact meaning of the idiomatic expression/phrase given below:
: When I saw him in the morning, he looked like a duck in a thunderstorm.

- (a) Entrapped
- (b) Distressed
- (c) Peaceful
- (d) Timid

Itemcode : **PC1004**

Q24 Choose the exact meaning of the idiomatic expression/phrase given below:
: Our College is within a stone's throw of the railway station.

- (a) Very far off
- (b) Within a definite circumstance
- (c) At a short distance
- (d) With a certain radius

Itemcode : **PC1005**

Q25 Choose the correct Synonym from the words given:
: Abysmal

- (a) Mixed
- (b) Horrifying
- (c) Hollow
- (d) Superficial

Itemcode : **PC1006**

Q26 Choose the correct Synonym from the words given:
: Zealot

- (a) Foolish
- (b) Energetic
- (c) Dumb
- (d) fanatic

Itemcode : **PC1007**

Q27 Choose the correct Antonym from the words given below:
: Clandestine

- (a) Open

- (b) Vague
- (c) Bright
- (d) Unreal

Itemcode : **PC1008**

Q28 Choose the correct Antonym from the words given below:
: Sporadic

- (a) Irregular
- (b) Uneven
- (c) Frequent
- (d) Regularly

Itemcode : **PC1009**

Q29 Spot the error in the following sentences given below by indicating your answer with the correct alphabet:
:

- (a) Having been found guilty
- (b) On murder
- (c) The accused was
- (d) Sentenced to death

Itemcode : **PC1010**

Q30 Spot the error in the following sentences given below by indicating your answer with the correct alphabet:
:

- (a) A more irrational world
- (b) To this one in which
- (c) We presently live
- (d) Could hardly be conceived

Itemcode : **PC1011**

Q31 Octal equivalent of hexadecimal code F3A1 is
:

- (a) 173101
- (b) 176541
- (c) 158661
- (d) 171641

Itemcode : **PC1012**

Q32 The register used as a working area in the CPU is
:

- (a) Program counter
- (b) Instruction decoder
- (c) Accumulator
- (d) Instruction register

Itemcode : **PC1013**

Q33 Cycle stealing refers to
:

- (a) Reduction in instruction cycle time through instruction pipelining
- (b) Reduction in the number of clock cycles for memory access in a cache memory
- (c) Overlapping of memory refresh operation and memory read operations in dynamic memory
- (d) None of these

Itemcode : **PC1014**

Q34 Which of the following is a characteristic of CISC (Complex Instruction Set Computer)?
:

- (a) Fixed Format Instructions
- (b) Variable Format Instructions
- (c) Instructions are executed by hardware
- (d) None of these

Itemcode : **PC1015**

Q35 A microprocessor has a data bus with 64 lines and an address bus with 32 lines. The maximum number of bits that can
: be stored in the memory is

- (a) 32×2^{32}
- (b) 32×2^{64}
- (c) 64×2^{32}
- (d) 64×2^{64}

Itemcode : **PC1016**

Q36 When the value 37H is divided by 17H, the remainder is
:

- (a) C0 H
- (b) 03 H

- (c) 07 H
- (d) 09 H

Itemcode : **PC1017**

Q37 Which of the following memories is not possible?

:

- (a) 10-bit address,12-bit cell size, 1024 cells
- (b) 9-bit address, 8-bit cell size, 1024 cells
- (c) 11-bit address, 1024-bit cell size, 1024 cells
- (d) None of these

Itemcode : **PC1018**

Q38 All cloud computing applications suffer from the inherent _____ that is intrinsic in their WAN connectivity.

:

- (a) propagation
- (b) latency
- (c) noise
- (d) all of the mentioned

Itemcode : **PC1019**

Q39 A NAND gate has inputs A and B. It's output is connected to both of it's inputs of another NAND gate. The equivalent

:

gate for these two NAND gates is

- (a) AND
- (b) OR
- (c) XOR
- (d) NOR

Itemcode : **PC1020**

Q40 An external variable is one

:

- (a) Which resides in memory till the end of the program
- (b) Which is globally accessible by all functions
- (c) Which is declared outside the body of any function
- (d) All of the above

Itemcode : **PC1021**

Q41 Given the following program

:

```
Main() {
  Int X=49;
  For ( ;X; )
  X- -;
  Printf("%d\n ",X);
}
```

The output of the program will be

- (a) 49
- (b) 0
- (c) -49
- (d) 48

Itemcode : **PC1022**

Q42 What is the output of the following code

:

```
Main()
{
  int a=1,b=10;
  Swap(a,b)
  Printf("\n%d %d", a,b);
}
```

```
Swap(int x, int y)
{
  Int Temp;
  Temp = x;
  x = y;
  y = Temp;
}
```

- (a) 1 10
- (b) 1 1
- (c) 10 1
- (d) None of these

Itemcode : **PC1023**

Q43 Given float*pf, int*pi which of the following is True

:

- (a) sizeof(pf) > sizeof(pi)
- (b) sizeof(pf) < sizeof(pi)
- (c) sizeof(pf) == sizeof(pi)
- (d) None of the above

Itemcode : **PC1024**

Q44 The black box testing is based on the assumption(s) that :

- (a) The relationship between the inputs and output is stable
- (b) Black boxes are dependant on the environment
- (c) The subsystem is stable
- (d) All of the above

Itemcode : **PC1025**

Q45 Data Flow Diagrams are used for :

- (a) Process Modelling
- (b) Data Modelling
- (c) Modelling interactions in a Real Time Environment
- (d) None of these

Itemcode : **PC1026**

Q46 The set difference of the set A with null set is _____ :

- (a) A
- (b) Null
- (c) U
- (d) None of these

Itemcode : **PC1027**

Q47 What are the worst case and average case complexities of a binary search tree? :

- (a) $O(n)$, $O(n)$
- (b) $O(\log_n)$, $O(\log_n)$
- (c) $O(\log_n)$, $O(n)$
- (d) $O(n)$, $O(\log_n)$

Itemcode : **PC1028**

Q48 What is the speciality about the inorder traversal of a binary search tree? :

- (a) It traverses in a non increasing order
- (b) It traverses in an increasing order
- (c) It traverses in a random fashion
- (d) None of these

Itemcode : **PC1029**

Q49 What will be the output of the following code segment

```
: Int a[10]={1,2,3,4,5,6,7,8,9,10}
   *p=a
   Printf("\n %d:%d", p[7] ,p[a[7]] );
```

- (a) 7:7
- (b) 7:8
- (c) 8:8
- (d) 8:9

Itemcode : **PC1030**

Q50 A counting semaphore was initialized to 10. Then 6 P(wait) operations and 4V(signal) operations were completed on this semaphore. The resulting value of the semaphore is

- (a) 0
- (b) 8
- (c) 10
- (d) 12

Itemcode : **PC1031**

Q51 Which of the following need not necessarily be saved on a context switch between processes? :

- (a) General purpose registers
- (b) Translation look-aside buffer
- (c) Program counter
- (d) All of the above

Itemcode : **PC1032**

Q52 Consider a machine with 64 MB physical memory and a 32-bit virtual address space. If the page size is 4KB, what is the approximate size of the page table?

- (a) 16 MB
- (b) 8 MB
- (c) 2 MB
- (d) 24 MB

Itemcode : **PC1033**

Q53 A process executes the following segment of code :
: for(i = 1; i < = n; i++) { fork(); }

The number of new processes created is

- (a) n
- (b) $((n(n + 1))/2)$
- (c) $2^n - 1$
- (d) $3^n - 1$

Itemcode : **PC1034**

Q54 An effective way to prevent attenuation is
:

- (a) Adding repeaters or amplifiers to a circuit
- (b) Compressing a circuit
- (c) Shielding wires
- (d) None of these

Itemcode : **PC1035**

Q55 Which of the following is not a transmission media?
:

- (a) Microwave systems
- (b) Modem
- (c) Telephone lines
- (d) Coaxial cables

Itemcode : **PC1036**

Q56 The maximum data rate that a medium of 10KHz and signal to noise ratio of 30db is roughly
:

- (a) 10 Kbps
- (b) 100Kbps
- (c) 3Kbps
- (d) 30Kbps

Itemcode : **PC1037**

Q57 Which of the following is the correct order of occurrence in a typical SQL statement?
:

- (a) select, group by, where, having
- (b) select, where, group by, having
- (c) select, where, having, group by
- (d) select, having, where, group by

Itemcode : **PC1038**

Q58 Consider a relation R (A, B, C, D, E, F, G, H), where each attribute is atomic, and following functional dependencies
: {CH->G, A->BC, B->CFH, E->A, F->EG} . The relation R is _____ .

- (a) in 1NF but not in 2NF
- (b) in 2NF but not in 3NF
- (c) in 3NF but not in BCNF
- (d) in BCNF

Itemcode : **PC1039**

Q59 Consider the following two transactions and schedule (time goes from top to bottom). This schedule is _____
:

Transaction T0

Transaction T1

Read[A]

Write[A]

Read[A]

Read[B]

commit

Read[B]

Write[B]

commit

- (a) conflict serializable but not view serializable
- (b) conflict serializable and view serializable
- (c) Not conflict serializable
- (d) None of the above

Itemcode : **PC1040**

Q60 Which of the following characteristic of big data is relatively more concerned to data science ?
:

- (a) Velocity
- (b) Volume
- (c) Variety
- (d) None of the Mentioned