



Pune Vidyarthi Griha's
College of Science, Pune -09

PVGCOS

NAAC Cycle 2

2.5.1

2020-21

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode:

QuestionBank

**P.V.G's College of Science, Pune –
411009 QuestionBank
(SemIV) A.Y.2020-21**

**Class: S.Y.B.Sc. Computer Science Subject:
EI (Embedded System Design) (ELC241)**

1. The traditional computing platform for Embedded Systems is a _____
a. Microcontroller
b. Personal Computer
c. Laptop
d. None
2. is a computer complete with processor, RAM, graphics and other peripherals on a one compact board.
a. Microprocessor
b. SBC
c. GPU
d. None
3. An architecture where the single board computer is plugged into a _____ to provide for I/O cards is referred as slot support SBC.
a. Frontplane
b. Plugin
c. Backplane
d. None
4. SBC's offer users access to both the hardware design and layout as well as access to the source code used on the board.
a. Open source
b. Proprietary
c. Supervisory
d. None
5. The most prevalent platform of software used on SBC's is _____.
a. Windows
b. Mac
c. Linux
d. None
6. is a popular Operating System for SBC: Raspberry Pi.
a. Raspbian

- b. WindowsNT
 - c. CUDA
 - d. None
- 7 The _____ SBC is more an engineering focused board.
- a. RaspberryPi
 - b. BeagleBoneBlack**
 - c. DragonBoard410C
 - d. None
- 8 SBC's can be wired with a built-in Wi-Fi module as part of Network Interface.
- a. co-axial cable
 - b. fiber optic cable
 - c. Ethernet cable**
 - d. None
- 9 The Raspberry Pi is defined as the?
- a. Minicomputer**
 - b. MicroComputer
 - c. MegaComputer
 - d. NanoComputer
- 10 Raspberry Pi consists of a _____ quad-core processor or microprocessor.
- a. 16-bit
 - b. 32-bit
 - c. 64-bit**
 - d. 128-bit
- 11 How much RAM, the Raspberry Pi has?
- a. 2GB of RAM
 - b. 1GB of RAM**
 - c. 4GB of RAM
 - d. 8GB of RAM
- 12 How many Input/Output pins on board Raspberry Pi 3 has?
- a. 20
 - b. 30
 - c. 40**
 - d. 50
- 13 Which operating system Raspberry Pi has?
- a. Linux
 - b. OpenBSD
 - c. NetBSD
 - d. All of the above**
- 14 How many GPIO pins RPi 1 have?
- a. 24
 - b. 18
 - c. 26**
 - d. 22
- 15 Name the Architecture set used in RPi?
- a. CISC
 - b. MIPS
 - c. RISC**
 - d. None of them

- 16 What is the Processor operating voltage of RPi3?
a. 3.3V
b. 4.1V
c. 5.2V
d. 3.2V
- 17 Name the Ethernet/LAN port used in Raspberry Pi?
a. RJ45
b. Cat5
c. Cat 7
d. Cat6a
- 18 Which of the following is NOT an advantage of embedded systems?
a. high development cost
b. time consuming design process
c. less market available
d. small size
- 19 Which of the following is a type of SBC?
a. Toshiba
b. BeagleBone
c. Intel
d. Sony
- 20 CAN protocol is specifically designed for _____ industry.
a. Pharmaceutical
b. Home automation
c. Automobiles
d. Farming
- 21 Raspberry Pi provides on-chip _____ modules.
a. UART
b. I2C
c. I2S
d. All of these
- 22 The MMU is responsible for _____.
a. protection checking
b. address translation
c. memory attributes
d. all of these
- 23 The AMBA protocol stands for _____.
a. advanced microcontroller bus architecture
b. advanced microprocessor bus architecture
c. arithmetic microcontroller bus architecture
d. None of these
- 24 The ARM1176JZ-S processor contains an Embedded ICE-RT logic unit provides _____.
a. up to 6 breakpoints
b. thread-aware breakpoints
c. up to 2 watchpoints
d. all of these
- 25 CPU pipelining stages contains _____.
a. fetch stage
b. decode stage



- c. executestage
d. allofthese
- 26 istheofficialOSprovidedbyRaspberrypi foundation.
a. raspbian
b. debian
c. linux
d. none ofthese
- 27 Thehardware-software_____approach makes the SoC compact in size, allows for less power consumption and more reliable than a standard multi-chip system.
a. integration
b. design
c. isolation
d. none
- 28 Soc's can be built around a_____.
a. transmitter
b. receiver
c. microcontroller
d. none
- 29 Soc processor core typically use _____ instruction set architectures.
a. CISC
b. RISC
c. Assembly
d. None
- 30 are often included on SoCs for signal processing operations.
a. DSP
b. SSP
c. RSP
d. QSP
- 31 SoCs include _____ interfaces for communication protocols.
a. internal
b. TTL
c. external
d. none
- 32 The execution units of SoC send data and _____ to and from the interfaced devices.
a. instructions
b. addresses
c. control signals
d. none
- 33 controllers route data directly between external interfaces and SoC memory.
a. DSP
b. cache
c. DMA
d. none



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P.V.G.'s College of Science, Pune 411009

Class: T.Y.B.Sc. (Comp. Sci.)

Internal Examination Time table

Date 27/11/2020

Date	Time	Subject
7/11/2020	8.00 to 8.30	CS- I : System Programming
	9.00 to 9.30	CS-II : Theoretical Computer Science
8/11/2020	8.00 to 8.30	CS-III : Computer Networks- I
	9.00 to 9.30	CS-IV : Internet Programming - I
9/11/2020	8.00 to 8.30	CS-V : Programming in Java- I
	9.00 to 9.30	CS-VI : Object Oriented Software Engineering

Note:

1. Internal examination will be conducted for 15 marks for each subject.
2. There will be no negative mark system.
3. Change of examination date is not allowed.
4. Absent students will be granted zero marks.
5. If internal examination timing clashes with SPPU online backlog exams, the internal exam timing on the same day will be changed.



Internal Exam Google Form

Online Internal Test(SEM - I)(2020-2021)

<https://docs.google.com/forms/d/17zaK8chEa8JQrQzieWT9CiPN2>

Online Internal Test(SEM - I) (2020-2021)

F.Y.B.SC (Computer Science)

Subject : CSST 113

Paper Title : Statistical Practical

*Required

1. Email *

2. Name(Surname Name Middle Name) *

3. Contact Number *

Multiple Choice Question

4. $sk_b = 0.6$ then given distribution is _____

1 point

Mark only one oval.

- Positively Skewed
 Negatively Skewed
 Platykurtic
 Leptokurtic



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Online Internal Test(SEM - I)(2020-2021)

<https://docs.google.com/forms/u/0/d/17zaK8cht5a81>

5. Using MS-Excel What is a function of Standard Deviation

1 point

Mark only one oval.

- Squarevar()
- Standdev()
- Var()
- Stdev()

6. For a Distribution mean is 5 and Variance is 16 then 1st raw and 1st Central moment are _____

1 point

Mark only one oval.

- (5,16)
- (0, 5)
- (16, 5)
- (5, 0)

7. Mean =25 , Mode =7 , then Median is _____

1 point

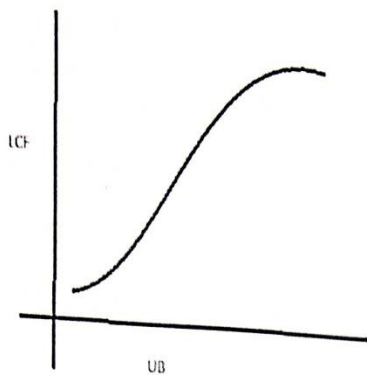
Mark only one oval.

- 18
- 19
- 32
- None of the above



8. The diagram given below is _____

1 point



Mark only one oval.

- More than ogive curve
- Less than ogive curve
- Ogive curve
- Histogram

9. Weight in mg of 25 residents is given below.

1 point

50 46 31 49 33 42 55 37 36 35 65
57 27 37 42 33 51 46 31 37 51 56 32 43 48 What is
the frequency of class-interval 30-39?

Mark only one oval.

- 7
- 8
- 9
- 10



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Online Internal Test(SEM - I)(2020-2021)

<https://docs.google.com/forms/u/0/d/17zaK&chf>

10. Median of the given data is _____ 16 , 35 , 18 , 42 , 20 , 16 , 30

Mark only one oval.

- 42
 20
 16
 30

11. First four raw moment are 2 , 20 , 40 , 200 respectively what is the value of μ_1 and μ_2 respectively 1 point

Mark only one oval.

- (0 , 16)
 (16 , 0)
 (2 , 18)
 d. None of the above

12. $N = 1000$, $(A) = 470$, $(B) = 620$ What is the value of (α) and (β) respectively 1 point

Mark only one oval.

- (380 , 530)
 (530 , 380)
 (1470 , 1620)
 (1620 , 1470)



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1 point

Internal Test (SEM - I) (2020-2021)

<https://docs.google.com/forms/u/0/d/17zaK3chEa8JQrQzieWT9C>

13. Which is a source of Primary data

1 point

Mark only one oval.

- Internet
- Books
- News papers
- Interview

14. A set of 7 similar (unbiased) coins is tossed 650 times with the following results 1 point
: Then What will be the estimate p for above example?

No. of heads	0	1	2	3	4	5	6	7
Frequency	7	64	140	210	132	75	12	10

Mark only one oval.

- 0.51
- 0.50
- 0.4437
- 0.49

15. What will be the estimate q for above example ?

1 point

Mark only one oval.

- 0.49
- 0.5896
- 0.5563
- 0.51



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Test (SEM - I) (2020-2021)

<https://docs.google.com/forms/d/17zaKSchEaSIQrQzieWT9Cl>

16. Using above data find out expected probability at 0 i.e. $P[X=0]$. 1 point

Mark only one oval.

- 0.00207
 0.01648
 0.00891
 0.03702

17. Using above data find out expected probability at $x = 1$ i.e. $P[X=1]$. 1 point

Mark only one oval.

- 0.2207
 0.09201
 0.08271
 0.0527

18. How to find Upper quartile using Ms-Excel function 1 point

Mark only one oval.

- quart (data ,1)
 quart (data ,3)
 quartile (data ,1)
 quartile (data ,3)

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Google Forms



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Timestamp	Email address	Name(Surname Name Middle Name)	Contact Number of Student	Division	Score		
4/2/2021 14:05:18	divansir68@gmail.com	Shamika Dhananjay Diwan	9822280105	A	7 / 15		
4/2/2021 14:09:44	shivaniambede08@gmail.com	Ambede Shivani Ajit	8788375324	B	8 / 15		
4/2/2021 14:10:20	kshitijdimble24@gmail.com	Dimble Kshitij Vikas	9359331746	A	12 / 15		
4/2/2021 14:14:02	akshaynandan907@gmail.com	Nandan Akshay Sanjay	9307077280	B	10 / 15		
4/2/2021 14:14:14	harshnatuskar10@gmail.com	Natuskar Harsh Mahesh	9359506443	B	7 / 15		
4/2/2021 14:14:25	kakadeatharva29@gmail.com	Kakade atharva Sharad	8983510888	B	12 / 15		
4/2/2021 14:15:10	ajinkyaravi757@gmail.com	Shinde Ajinkya Ravindra	8446011218	A	14 / 15		
4/2/2021 14:15:18	devadattagodbole.5@gmail.com	Devadatta Godbole	8459096864	A	13 / 15		
4/2/2021 14:15:50	madhura.chakole@gmail.com	CHAKOLE MADHURA AMBAJI	9325509858	B	11 / 15		
4/2/2021 14:17:07	pratikpaditkar@gmail.com	Pratik paditkar	9158216721	A	13 / 15		
4/2/2021 14:17:40	abhishekkhopade27@gmail.com	Abhishek changdev khopade	9970544025	B	13 / 15		
4/2/2021 14:18:19	tejasbhosale2030@gmail.com	Bhosale tejas tanaji	9021922760	A	14 / 15		
4/2/2021 14:18:48	sanassandesh36@gmail.com	Sanas Sandesh Suresh	9403354842	B	13 / 15		
4/2/2021 14:18:50	Amanshaikh9780@gmail.com	Shaikh Aman Ibrahim	9689653053	A	14 / 15		
4/2/2021 14:18:51	abhishingate15@gmail.com	Premanand Mohan Shingate	Premanand Mohan Shingate	B	13 / 15		
4/2/2021 14:19:02	prashantdubale32@gmail.com	Prashant Balkrishna Dubale	8010875179	B	13 / 15		
4/2/2021 14:19:16	shrutikasatpute26@gmail.com	Satpute Shrutika mahendra	9370833195	B	14 / 15		
4/2/2021 14:19:27	mugdyaalsamarth@gmail.com	Mugdyaal Samarth Madhukar	09156073754	B	13 / 15		
4/2/2021 14:19:40	sohamjag08@gmail.com	Jagtap Soham Vikas	9021129950	B	14 / 15		
4/2/2021 14:19:45	praut2312@gmail.com	Raut Prathmesh Vajjinath	9325823612	A	14 / 15		
4/2/2021 14:19:50	maheshramesh8295@gmail.com	Shinde Mahesh Ramesh	7773967096	B	13 / 15		
4/2/2021 14:19:54	kshatriyasimran@gmail.com	Kshatriya Simran Manohar	09145338545	B	15 / 15		
4/2/2021 14:20:08	sadu.karma2652@gmail.com	Karmarkar Sadanand Hemant	9511609354	A	13 / 15		
4/2/2021 14:20:22	h...@...	A	13 / 15		



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4/2/2021 14:19:27	mugdysamarth@gmail.com	Mugdyal Samarth Madhukar	09156073754	B	13 / 15
4/2/2021 14:19:40	sohamjag08@gmail.com	Jagtap Soham Vikas	9021129950	B	14 / 15
4/2/2021 14:19:45	praut2312@gmail.com	Raut Prathmesh Vaijinath	9325823612	A	14 / 15
4/2/2021 14:19:50	maheshramesh8295@gmail.com	Shinde Mahesh Ramesh	7773967096	B	13 / 15
4/2/2021 14:19:54	kshatriyasimran@gmail.com	Kshatriya Simran Manohar	09145338545	B	15 / 15
4/2/2021 14:20:08	sadu.karma2652@gmail.com	Karmarkar Sadanand Hemant	9511609354	A	13 / 15
4/2/2021 14:20:33	durgeshduggi444@gmail.com	DURGESH GAIKWAD RAMDAS	7620165313	A	12 / 15
4/2/2021 14:20:51	kprathmesh94@gmail.com	Kale Prathmesh	7620976615	A	13 / 15
4/2/2021 14:20:57	yashbangude1715@gmail.com	Yash Bangude	09325488011	A	13 / 15
4/2/2021 14:21:04	ashishvelhal147@email.com	Ashish Umesh Velhal	8888267617	A	13 / 15
4/2/2021 14:21:25	onkarduse4321@gmail.com	Duse Onkar Makarand	9325967182	A	13 / 15
4/2/2021 14:21:26	vaibhvmhamane7@gmail.com	Mhamane Vaibhav Nagesh	9022687887	B	14 / 15
4/2/2021 14:21:26	tanmaysbhosale@gmail.com	Bhosale Tanmay Sitaram	8459620356	B	14 / 15
4/2/2021 14:21:27	atharvasamindre9@gmail.com	Samindre Atharva Sachin	9922769656	B	14 / 15
4/2/2021 14:21:27	awalesejal5@gmail.com	sejal Sanjay Awale	7972073188	B	13 / 15
4/2/2021 14:21:27	pharateyashraj8@gmail.com	Pharate Yashraj mahesh	9130330909	B	14 / 15
4/2/2021 14:21:29	dadheharsh@gmail.com	Harshwardhan Dilip Dadhe	8975036550	A	14 / 15
4/2/2021 14:21:30	chetan.pawar492@gmail.com	chetan deepak pawar	8793164197	A	14 / 15
4/2/2021 14:21:30	pranavthombre0532@gmail.com	Thombre Pranav Prashant	8983889346	A	14 / 15
4/2/2021 14:21:30	tanishq.doke@gmail.com	Doke Tanishq Hemant	7028556989	A	13 / 15
4/2/2021 14:21:32	shindesahil125@gmail.com	Shinde Sahil Sanjay	8767359525	A	14 / 15
4/2/2021 14:21:33	rajdhole007@gmail.com	Dhole Raj Shivaji	7058493880	A	14 / 15
4/2/2021 14:21:34	varadvijayshinde@gmail.com	Shinde Varad Vijay	9404217104	A	14 / 15
4/2/2021 14:21:35	maruftamboli1@gmail.com	Tamboli Maruf Sattar	9923187549	B	14 / 15
4/2/2021 14:21:38	pathareom0@gmail.com	Pathare Om Annasaheb	7397882377	B	14 / 15