

Goa Vidyaprasarak Mandal's
GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS
FARMAGUDI, PONDA- GOA
B.C.A. UGC-CCFUP(SEMESTER-III) REGULAR EXAMINATION, OCTOBER/NOVEMBER 2025
COM 233- BUSINESS ETHICS AND GOVERNANCE

Duration: 2 hours

Total marks: 60

Instructions: i) All questions are compulsory.

ii) Figures to the right indicate full marks.

iii) To the right the CO, BL indicates Course outcome and Blooms taxonomy respectively

- Q1. Answer the Following. (6x2 marks = 12 marks)
1. Define Business Ethics. (BL1, CO1)
 2. List **any two** ethical practises. (BL1, CO1)
 3. What is Price Fixing? (BL1, CO1)
 4. Define Corporate Governance. (BL1, CO4)
 5. Define Globalization. (BL1, CO3)
 6. What is nepotism? (BL1, CO3)
- Q2. A. i)What is ESG and state **any 2** benefits of ESG. (BL1, CO2) (3)
- ii) What is Predatory pricing? (BL1, CO1) (2)
- OR**
- Q2. A. iii) Explain **any 2** Functional ethics. (BL1, CO3) (3)
- iv) State and explain **any 2** ethics in maintenance of books of accounts. (BL1, CO3) (2)
- Q2.B.i) Explain **any 3** types of ethics. (BL1, CO1) (5)
- ii). What is green washing? (BL1, CO1) (2)
- Q3.A.i) .Explain **any 3** areas in business ethics (BL2, CO1) (3)
- ii) What is copyright ethics (BL2, CO1) (2)
- OR**
- Q3. iii). Explain any **3 types** of scams. (BL2, CO3)(3)
- iv). What is insider trading? (BL2, CO2) (2)
- Q3.B.i). Explain the Ethical issues in human resource department. (BL2, CO3) (5)
- ii). Explain what is corruption with an example (BL2, CO4) (2)

- Q4.A. i) Explain in brief importance of copyright ethics. (BL2, CO1) (3)
ii) Explain Zero tolerance to corruption. (BL2, CO4) (2)

OR

- Q4.A. iii) Explain **any 3** ethical issues in performance appraisal. (BL2, CO3) (3)
iv) Explain intrusive marketing. (BL2, CO2) (2)

- Q4.B.i) Explain how ethics and business development are interrelated? (BL2, CO4) (5)
ii) Explain **any two** Benefits of zero tolerance to corruption. (BL2, CO4) (2)

Q.5.A. i) Akash is the finance manager of Fintech ltd. He is given the responsibility to hire an accountant for his department. Identify the qualities that he should consider while hiring an Accountant? (BL3, CO3) (3)

ii) Suraj, the CEO of ABC Ltd., has noticed an increase in minor ethical violations among employees. As an ethics consultant, how would you help Suraj to educate his employees on the need of ethical culture within the organization? (BL3, CO1) (2)

OR

Q.5.A. iii) Sujit is a hardworking employee who feels demotivated due to ongoing discrimination at work. As the HR manager, how would you apply your understanding of workplace discrimination to identify its root causes and suggest any one remedy to prevent such issues in the organization? (BL3, CO4) (3)

iv) Adarsh, the director of a company, is committed to implementing a zero-tolerance policy towards corruption. As a compliance advisor, how would you apply your knowledge of anti-corruption strategies to help Adarsh identify the challenges he will face while implementing the policy? (BL3, CO4) (2)

Q.5.B.i) Daksh, the CEO of a mid-sized company, has discovered multiple cases of internal frauds. As a risk management consultant, how would you apply your knowledge of fraud prevention to recommend specific measures Daksh can implement to reduce the risk of such frauds in the future? (BL3, CO4) (5)

Q.5.B.ii) Vinay is a businessman who wants to expand his business in the global market. Using your understanding identify the unethical practices that Vinay should avoid to maintain lawful and responsible operations in global markets? (BL3, CO2) (2)

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B.C.A. UGC-CCFUP (SEMESTER-III) REGULAR EXAMINATION OCT-NOV 2025
CSA-200 DATA STRUCTURES

Duration: 2 hours

Marks: 60

Instructions:

- i. Please check that question paper is printed on both the sides.
- ii. All questions are compulsory.
- iii. Marks are mention at the right of each questions.

-
- Q1) Answer the following: (6*2mks)
- i. Write any two real-world examples of queues. [BL1,CO2]
 - ii. What is a node in a linked list? [BL1,CO2]
 - iii. State the difference between vertex and edge? [BL1,CO1]
 - iv. Explain the term contiguous memory allocation? [BL1,CO1]
 - v. Define the degree of a node with an example? [BL1,CO1]
 - vi. Define root and height of a tree. [BL1,CO2]
- Q2 A) (i) . Differentiate between linear and non-linear data structures with examples. (3) [BL2, CO1]
(ii) What are the disadvantages of using fixed-size arrays? (2) [BL2, CO2]
OR
- Q2 A) (iii) Explain the terms Overflow and Underflow with examples. (3) [BL2, CO1]
(iv) What are the advantages and disadvantages of using stacks? (2) [BL2, CO2]
- Q2 B) (i) Describe the steps involved in the Enqueue and Dequeue operations. (5) [BL2, CO1]
(ii) List any two applications of queues. (2) [BL2, CO3]
- Q3 A) (i) Write the algorithm for insertion at the end of a singly linked list and illustrate with a diagram. (3) [BL2, CO2]
(ii) What is the need for algorithm efficiency analysis? (2) [BL2, CO2]
OR
- Q3 A) (iii) Demonstrate the following: an array x[-15....10, 15.....40] requires (3) [BL2, CO2]
2 byte of storage for each element & beginning location is 150 so determine the location of x[15][20].
(iv) Differentiate between data and information. (2) [BL2, CO2]
- Q3 B) (i) Write a C program to demonstrate insertion and deletion operations on a 1D array. The program should accept the array size and elements from the user and perform both operations dynamically. (5) [BL3, CO3]
(ii) Construct below expression to its equivalent Prefix and Postfix notations. (2) [BL3, CO2]
((A + B) * C - (D - E) ^ (F + G))

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ECONOMICS, PONDA-GOA
B.C.A(SEMESTER-III) END EXAMINATION, NOVEMBER 2025
DATABASE MANAGEMENT SYSTEM (CAC-110)**

Duration: 2 Hours

Marks: 60

Instructions: 1) Figures to the right indicate Full Marks.

2) All Questions are compulsory.

Q.1.A) Define the following:

5X1=05

- a. Data Independence
- b. Schema
- c. Data Redundancy
- d. Cardinality
- e. Deadlock

Q.1.B) Match the Following and Rewrite the Matched Pairs:

5X1=05

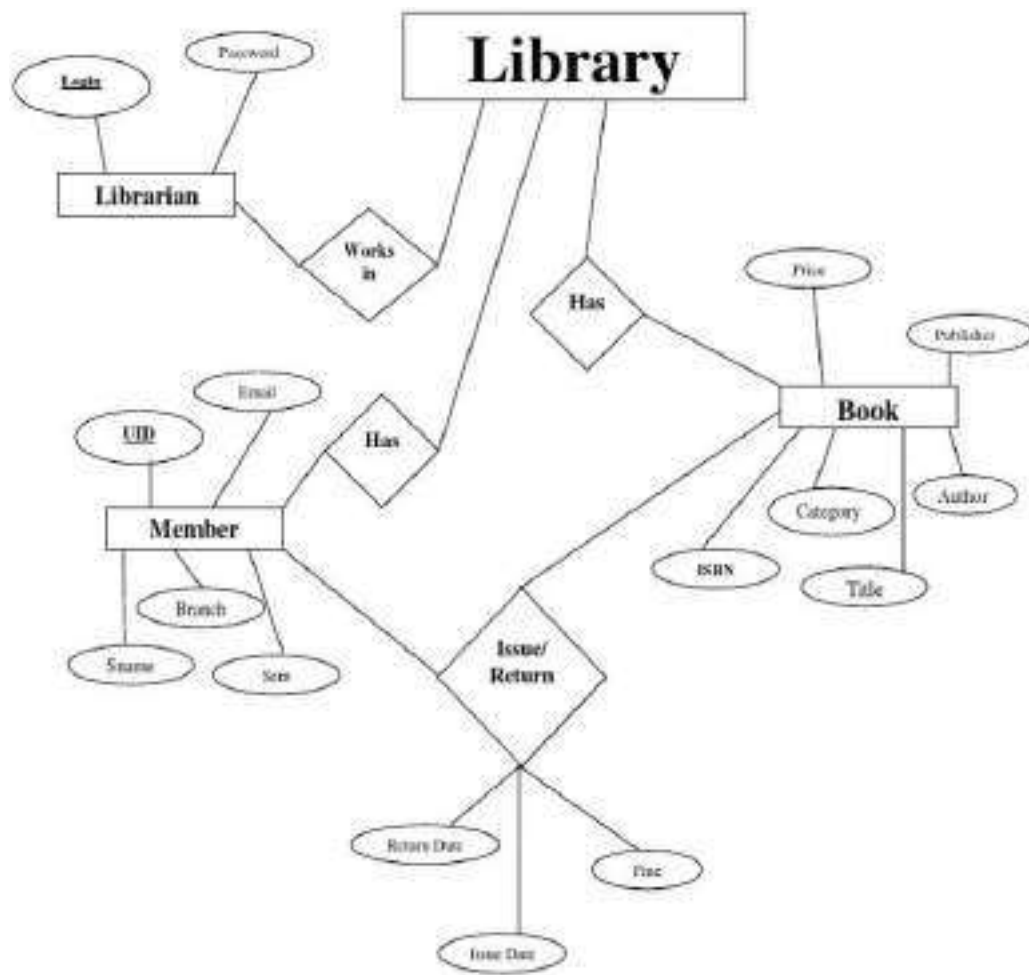
1) DML	A) Ensures database correctness after failure
2) Data Dictionary	B) Commands used to access and manipulate data
3) Recovery	C) Describes structure and metadata of database
4) Distributed DBMS	D) Data stored across multiple sites
5) Candidate Key	E) Attribute that can uniquely identify a tuple

Q.2. Answer the following:

- A) What is Data Abstraction? **02**
- B) Explain the concept of Referential Integrity with example. **03**
- C) Draw and explain an E–R diagram for a Hospital Management System. **05**

Q.3. Answer the following:

- A) Compare Hierarchical and Network data models (four points each). **02**
- B) Explain advantages of Client–Server architecture. **03**
- C) Convert the following E–R diagram of a Library System into a relational model **05**



Q.4. Answer the following:

- | | |
|---|----|
| A) What is Foreign Key? Give an example. | 02 |
| B) Explain lossless join decomposition with suitable example. | 03 |
| C) Discuss 2NF and its importance in normalization. | 05 |

Q.5. Answer the following:

- | | |
|---|----|
| A) Give an example of partial dependency and explain it. | 02 |
| B) Explain any three states of a transaction. | 03 |
| C) Consider relation R(P, Q, R, S, T) and FDs:
{P → QR, Q → ST}.
Check whether R is in 2NF or not | 05 |

Q.6. Answer the following:

- A)** What are integrity constraints? Give two examples. **02**
- B)** Determine whether the following schedule is conflict serializable: **03**
T1: R(A), W(A); T2: R(A), W(A).
- C)** Explain Deadlock Prevention and Detection techniques in DBMS. **05**

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B.C.A. UGC-CCFUP (SEMESTER-III) END EXAMINATION
OCTOBER/NOVEMBER 2025
HIN-251 COMMUNICATION SKILLS (SAMPRESHAN KAUSHAL)

Duration: 1 hour

Total marks: 40

No. Of Pages: 02

- प्र. 1) निम्नलिखित प्रश्नों के लघु उत्तर लिखिए।** **(Marks) (CO) (BL)**
- i. संप्रेषण की कोई एक परिभाषा दीजिए। **(2) (CO1) (BL1)**
 - ii. लिखित संप्रेषण के दो फायदे बताइए। **(2) (CO1) (BL1)**
 - iii. 'श्रव्य संकेत भाषा' से क्या तात्पर्य है? **(2) (CO1) (BL1)**
 - iv. कविता वाचन करते समय किन बातों का ध्यान रखना चाहिए? **(2) (CO1) (BL1)**

प्र. 2) अ) निम्नलिखित प्रश्न का उत्तर लिखिए।

- i. संप्रेषण की चुनौतियों पर प्रकाश डालिए। **(8) (CO2) (BL2)**

अथवा

प्र.2) आ) टिप्पणियाँ लिखिए।

- i. औपचारिक संप्रेषण की सीमाएँ। **(4) (CO2) (BL1)**
- ii. संप्रेषण के प्रमुख तत्व। **(4) (CO2) (BL1)**

प्र.3) अ) निम्नलिखित प्रश्न का उत्तर लिखिए।

- i. मौखिक संप्रेषण को स्पष्ट कीजिए। **(8) (CO2) (BL2)**

अथवा

प्र.3) आ) टिप्पणियाँ लिखिए।

- i. अशाब्दिक संप्रेषण के कार्य। **(4) (CO2) (BL1)**
- ii. शिल्प- तथ्यात्मक संप्रेषण। **(4) (CO2) (BL1)**

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B.C.A. UGC-CCFUP (SEMESTER-III) REGULAR EXAMINATION OCTOBER/NOVEMBER 2025
Skill Enhancement Courses: CSA – 241 Multimedia Applications (Theory)

Semester : III
 Total Marks: 20

NEP
 Duration: 01 Hour

Instructions: i) All questions are compulsory and figures to the right indicate full marks.
 ii) Questions of 1 mark to be answered in not more than 20 words.
 iii) Questions of 2 marks to be answered in not more than 40 words.

- Q1 Match the following questions. (4 x 1 Marks)**
(BL-1 ,CO-1)
- | Column A | Column B | |
|---------------------------|--|--|
| a) Multimedia Integration | i) The number of frames displayed per second in an animation or video. | |
| b) Morphing | ii) The process of combining text, graphics, audio, video, and animation into a single presentation. | |
| c) Image File Formats | iii) JPEG, PNG | |
| d) Frame Rate | iv) The gradual transformation of one image into another | |
- Q2 A** i) Two commonly used effects in a video editing tool are _____ and _____. **1 Mark**
(BL-1 ,CO-1)
- ii) _____ are images made up of paths defined by mathematical equations rather than pixels. **1 Mark**
(BL-1 ,CO-1)
- OR**
- iii) One example of a video file format is _____. **1 Mark**
(BL-1 ,CO-1)
- iv) _____ are images made up of pixels arranged in rows and columns. **1 Mark**
(BL-1 ,CO-1)
- Q2 B** Differentiate between text and image data. **2 Marks**
(BL-1 ,CO-1)
- Q3 A** i) What is layering in graphics software? **1 Mark**
(BL-2,CO-2)
- ii) What is the role of timeline in animation? **1 Mark**
(BL-2,CO-2)
- OR**
- iii) Write the importance of layers in image editing **1 Mark**
(BL-2,CO-2)
- iv) What are the main components of multimedia? **1 Mark**
(BL-2,CO-2)
- Q3 B** Define pixel and resolution with examples **2 Marks**

		(BL-2,CO-2)
Q4 A	i) Define Scaling	1 Mark
		(BL-2,CO-3)
	ii) What is the use of Transform tool.	1 Mark
		(BL-2,CO-3)
	OR	
	iii) Write the difference between 2D and 3D animation.	1 Mark
		(BL-2,CO-3)
	iv) What are keyframes in animation?	1 Mark
		(BL-2,CO-3)
Q4 B	How does resolution affect the quality of an image?	2 Marks
		(BL-2,CO-3)
Q5 A	i) Your college club wants to design a moving logo for their annual tech fest. Suggest some open source multimedia tools.	1 Mark
		(BL-3,CO-3)
	ii) Suppose you are asked to develop an interactive e-learning lesson on “Environmental Awareness” for school students. How can multimedia be used to create an e-learning module?	1 Mark
		(BL-3,CO-3)
	OR	
	iii) You have recorded two short clips of your college event and want to post one complete video on social media. Which tool you will use in filmora?	1 Mark
		(BL-3,CO-3)
	iv) Imagine you are part of a production team filming a product demo video for an industry client. List the main stages of video shooting you would plan before and during production.	1 Mark
		(BL-3,CO-3)
Q5 B	Mention two ways to make multimedia content interactive.	2 Mark
		(BL-3,CO-3)

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B.C.A. CCFUP (SEMESTER-III) REGULAR EXAMINATION, OCTOBER/NOVEMBER 2025.

MINOR COURSE: REASONING TECHNIQUES

Duration: 2Hrs

No. of pages: 04

Total Marks: 80

Instructions:

- 1. All Questions are compulsory; however internal choice is available.**
- 2. Figures to the right indicate marks.**
- 3. BL indicates Bloom's Level and CO indicates Course outcome.**

Q.1. A. Answer the following.

(4*2=8) [BL-1, CO-2]

- a) Define Analogy.
- b) Define Logic.
- c) What is an argument in Logical Reasoning?
- d) Define tautology?

Q.1. B. Answer the following.

(4*2=8) [BL-1, CO-1]

- a) Give any 2 examples of Verbal Classification.
- b) Give any 2 examples of Inductive Arguments.
- c) State any 2 examples of Coding and Decoding.
- d) Give any 2 Examples of Analogies.

Q.2 A) i) Explain contradiction with an example.

(4) [BL-1, CO-2]

- ii) State any 2 rules for Blood Reasoning test.

(2) [BL-1, CO-1]

Total: 6 Marks

OR

Q.2 A) iii) Explain Space Visualization in Reasoning.

(4) [BL-1, CO-2]

- iv) State any 2 Strategies for Solving Coded Inequalities.

(2) [BL-1, CO-1]

Total: 6 Marks

Q.2 B) i) What is Data sufficiency? Give any 2 Examples.

(6) [BL-1, CO-2]

- ii) Explain Syllogism. Give Examples.

(4) [BL-1, CO-2]

Total: 10 Marks

Q.3 A) i) With reasons, state Which word does NOT belong with the others.

(3) [BL-3, CO-3]

Guitar , flute , violin, cello

- ii) In the evening, a girl is standing such that the shadow of a tree falls exactly towards her right side. If she is facing the tree, which direction is she facing?

(3) [BL-3, CO-3]

Total: 6 Marks

OR

Q.3 A) iii) Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle."

How is the boy related to the girl?

(3) [BL-3, CO-3]

- iv) If a train travels at a speed of 70 kilometers per hour, how long will it take to cover a distance of 350 kilometers?

(3) [BL-3, CO-3]

Total: 6 Marks

Q.3 B) i.a) In a row of boys, one boy is seventh from either end of the row. Find how many boys are present in the row.

(3) [BL-3, CO-3]

i. b) In a row of trees, one tree is fifth from either end of the row. How many trees are there in the row? **(3) [BL-3,CO-3]**

ii) a) A mirror shows the time as 3:25. what is the actual time? **(2X2=4) [BL-3,CO-3]**

ii) b) How many times are the hands of a clock at right angles in 12 hours?

Total: 10 Marks

Q.4 A) i) Should young entrepreneurs be encouraged?

(3) [BL-4,CO-4]

Statement:

Arguments:

1. Yes. They will help in industrial development of the country.
2. Yes. They will reduce the burden on employment market.

Analyze how promoting young entrepreneurship can influence both industrial growth and employment generation. Which of these effects would have a more sustainable impact on national development, and why?

Q.4 A) ii) **Statement:**

(3) [BL-4,CO-4]

All entrepreneurs are risk-takers.
Some risk-takers are successful.

Conclusions:

1. All entrepreneurs are successful.
2. Some successful people are entrepreneurs.

Analyze the logical relationship between the given statements and conclusions. Identify which conclusion(s) logically follow and explain the reasoning behind your choice.

OR

Q.4 A) iii) **Statement:**

(3) [BL-4,CO-4]

The government should provide free Wi-Fi in all public places to promote digital literacy.

Assumptions:

1. Access to the internet improves digital literacy.
2. People will use free Wi-Fi responsibly.

Analyze the given statement and assumptions. Which of the assumptions are implicit in the statement, and how do they reveal the reasoning behind the proposal?

Q.4 A) iv) choose and write the correct option.

(3) [BL-4,CO-4]

Statements: In a class of 30 students, 60% are girls.

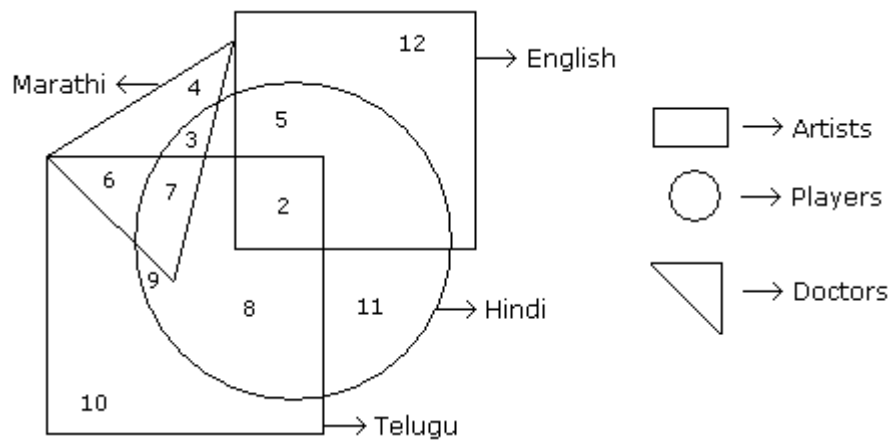
Conclusions:

- I) There are 18 boys in the class.
- II) Girls are the majority in the class.

- a. Only conclusion I follows.
- b. Only conclusion II follows.
- c. Both I and II follows.
- d. Neither I nor II follows.

Total: 6 Marks

Q.4 B) i. In the following figure small square represents the persons who know English, triangle to those who know Marathi, big square to those who know Telugu and circle to those who know Hindi. In the different regions of the figures from 1 to 12 are given. **(3*2=6) [BL-4,CO-4]**



Q.4 B) i.a) How many persons can speak English and Hindi both the languages only ?

Q.4 B) i.b) How many persons can speak Marathi and Telugu both ?

Q.4 B) ii. a) Of the following, four are alike in a certain way and so form a group, With explanation, Write the one that does not belong to that group. **(3) [BL-4,CO-4]**

Rigveda ,Yajurveda, Atharvaveda, Ayurveda, .Samveda

Q.4 B) ii. b) **Statement:** **(3) [BL-4,CO-4]**
Some engineers are researchers.
All researchers are innovative.

Conclusions:

1. Some engineers are innovative.
2. All engineers are researchers.

Analyze the logical consistency of the conclusions with the statements. Explain how syllogistic reasoning helps in determining the validity of the conclusions.

Total: 12 Marks

Q.5 A) i) write in symbolic form the following propositions. **(3) [BL-4,CO-4]**

a) If it rains, then the ground will be wet..

b) The student is absent or unwell.

ii) Let p: She is beautiful

q: She is intelligent

r: She likes dancing

write the following in sentences:

a) $(p \vee q)$

b) $(\sim p \wedge r)$

(3) [BL-4,CO-4]

Total: 6 Marks

OR

Q.5 A) iii) Determine the truth values of the following statement: (3) [BL-4,CO-4]

Statement: “ $\neg(3 \text{ is even}).$ ”

iv) if 1st jan 2023 was a sunday, what day was 1st jan 2024?. (3) [BL-4,CO-4]

Total: 6 Marks

Q.5 B) i) Study the following table and answer the questions. (4) [BL-3,CO-4]

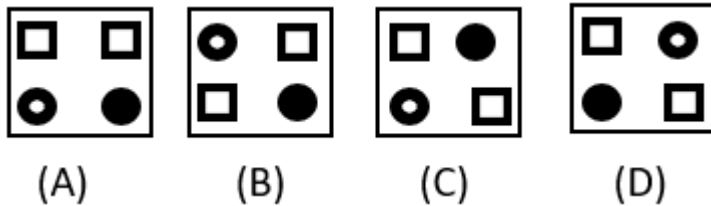
Classification of 100 Students Based on the Marks Obtained by them in Physics and Chemistry in an Examination.

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

- What is the difference between the number of students passed with 30 as cut-off marks in Chemistry and those passed with 30 as cut-off marks in aggregate?
- If at least 60% marks in Physics are required for pursuing higher studies in Physics, how many students will be eligible to pursue higher studies in Physics?

Q.5 B) ii) With explanation, Choose the figure which is different from the rest?

(4) [BL-3,CO-4]



Total: 8 Marks

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