CLUSTER UNIVERSITY :: KURNOOL
UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026
(SUPPLEMENTARY)

Group : B.A, B.Com & B.Sc

Subject : English

Paper Code & Title : **C1101- English**

Duration: 3Hrs

Max.Marks:75

SECTION-A

Time:3 Hrs

Max.Marks:75

1. Answer any THREE of the following questions: **(3x5=15M)**

a) Define Listening. Why listening is important for students?

b) What are the different types of listening and explain them

c) Explain the Processes of listening .

d) What are the barriers of effective listening?

e) Write about the strategies for effective listening

2. Answer any TWO of the following: **(2x5=10M)**

a) Explain the classification of English consonants sounds

b) Explain Pure Vowels with examples.

c) Write five rules of word stress.

d) Write Phonetic transcription for the given words:

i) Sister ii) Jump iii) bottle iv) Game v) College

e) Define Intonation. Write Rising/Falling tone for the following:

a) What's the matter?

b) Hello!

3. Answer the following questions:

a. Concord (2x1=2M)

i) Define concord with examples.

ii) Either of us ---------- (is/are) capable of doing the job.

b. Fill in the blanks with suitable Modals. (2x1=2M)

i) ------ you help me?

ii) ------- I leave early today.

c. Fill in the blanks with appropriate forms of the verbs given in the brackets (5X1=5M)

i) I ---------- (pass) my SSC in 2003.

ii) Look at these dark clouds! It------(rain)

iii) Rahul ------- (be) a student.

iv) He -------- (go) to school everyday

v) The movie ---(begin) at 7pm.

d. Answer the following: (2x1=2M)

i) Write two verbs which speak about possession.

ii) Give Past tense, Past Participle and Present Participle of a) Speak b) come

e. Fill in the blanks with suitable Prepositions. (2x1=2M)

i) Children are fond ---------- Sweets.

ii) Distribute these sweets---------- the children.

f. Add Question Tags to the following statements. (2x1=2M)

i) I am a late------,----------?

ii) She likes playing ,tennis ----------?

g. Transform the following sentences (5x1=5M)

i) The cat killed the rat. (Change the voice.)

ii) The player is taking extra Time (Change the voice.)

iii) She said, "I have a new Car." (Change into Indirect Speech.)

iv) Ravi said, "I am going out ?" (Change into Indirect Speech.)

v) Gold is the most expensive of all the metals. (Change into Positive Degree.)

h. Correct the following sentences. (5x1=5M)

i) One should love his teachers

ii) HShe is a PM.

iii) He is junior than me.

iv) The Sun rise in the East.

v) Beside English, he speaks Tamil.

4. **Answer any TWO of the following questions.** **(2x5=10M)**

i) How Punctuate the following.

excuse me will you guide me to the railway station said the stranger

ii) Pick out the correct word.

a) separate,	seperate,	superate,	separete
b) recieve,	receive,	reciev,	ryceive
c) occasion,	ocasion,	occassion,	ocation
d) momento,	memento,	momento,	mamento
e) definitely,	defenately,	defanitely,	dafinately

iii) Write a meaningful paragraph on any ONE of the following topics.

a) My Goal

b) Time and tide waits for none.

iv) Write a meaningful paragraph using the following hints.

Discipline--a great quality--rules-guiding action—behaviour—right path---self-control--sense of duty—civilized--respect the views and rights of others.

5. **Answer any THREE of the following questions.** **(3x5=15M)**

a) What is Positive Attitude? How to develop it?

b) What are the characteristics of Emotional Intelligence?

c) What are the tips that help us to communicate better over the phone?

d) How can you develop good Interpersonal Skills?

C110L

Cluster University :: Kurnool

UG **First** year **I** Semester End Examinations - **February 2026**

Programme : B.A / B.Com/ B.Sc. **Subject :** Telugu

Paper Title : General Telugu

Time : 3 Hours Max. Marks: 75

I. క్రింది పద్యాలలో ఏదైనా ఒక పద్యానికి ప్రతిపదార్థతాత్పర్యమును రాయండి. 1X8=8

(1) కడు జనువాడు నై పురుషకారియు దక్షుడు నైన మంత్రి పెం
పడరంగ రాజపుత్రుల మహాధనవంతులం జేసి వారితో
నొడంబడి పక్ష మేర్పడంగ నుండండుగా, ధన మట్టినాగకిం
గడుకొని చేమకుండునే జగన్నుత గర్వము దుర్విమోహమున్

(2) జలజభవాండమంతయును జర్జరితం బగుచుండ వ్రచ్చి, మున్
గులగిరు లుర్విమీద వడి గూలంగ ద్రోచి జగంబు లబ్ధులన్
గలిపి మహాబ్ధులన్నియును గంజభవాండము మేర కక్కడన్
వెలువడ జల్లి రౌద్రగతి విశ్వము నిప్పడ సంహరించెదన్.

II. ఈ క్రింది పద్యములలో ఒక దానికి పాదభంగం లేకేండా పూరించండి. 1X3=3

(1) ఉత్తమమధ్యమాధమనియోగ్యత----------కాలముదప్పకుండంగన్

(2) రాజగృభంబుకంటె నభిరామముగా ----------దట్లు చేముంగన్.

III. ఈ క్రింది వానిలో నాల్గింటికి సందర్భసహిత వ్యాఖ్యలు వ్రాయండి. 4X3=12

1. అనుపవుగా రాజకార్యభారము దాల్పన్.
2. నాలుక గోసియుప్పనిండు
3. కలసి పలుకవలయు ధరణీశు కడన్
4. చచ్చిన బ్రతికిన సౌఖ్యమచ్చటనె
5. కృతము దలచి ప్రాణములు విడుతురనిన్
6. ఉపదేశం బవశ్యకర్తవ్యంబు

IV. ఈ క్రింది ప్రశ్నలలో నాల్గింటికి సంగ్రహంగా సమాధానాలు రాయండి. 4X3=12

1. సైనికుల పట్ల, శత్రువుల పట్ల రాజు వ్యవహరించవలసిన తీరును తెలపండి?
2. దక్షుని కోసం వెదుకుచూ ప్రమథనాథులు చేసిన పనులేవి?
3. ధౌమ్యుని ఉపదేశం తరువాత ఏమి జరిగింది
4. బాలచంద్రుని చూచి నలగామరాజు సైన్యము భయపడిన విధమెట్టిది?
5. తనను నిందించిన సీతను రావణుడు బెదిరించిన విధమెట్టిది?
6. రాజులు భృతులను ఎలా అదరించాలి?

V. ఈ క్రింది ప్రశ్నలలో మూడింటికి వ్యాసరూప సమాధానాలు రాయండి. 3X8= 24

1. ప్రజాపాలనలో రాజులు పాటించవలసిన ధర్మాలేవి?
2. ' దక్షయజ్ఞం' పాఠ్యభాగ కథను వ్రాయండి?
3. ధౌమ్యుడు పాండవులకు చేసిన ధర్మోపదేశాన్ని వివరించండి.
4. పలనాటి యుద్ధములో బాలచంద్రుని యుద్ధ కౌశలాన్ని వివరించండి?
5. సీతరావణ సంవాదాన్ని సంగ్రహంగా రాయండి?
6. 'దక్షయజ్ఞం' ఆధారంగా నన్నెచోడుని కవితావైభవాన్ని తెలపండి?

VI. (అ) క్రింది సంధిగత రూపాలను నాల్గింటిని విడదీసి వ్యాకరణకార్యాలు తెలపండి. 4X1=4

1) కట్టెదురు 2) రౌద్రాకృత 3) ధరణీశుడు
4) ఎచ్చోట 5) అడ్డము సొచ్చి 6) కూరగాయలు

(ఆ) క్రింది సమాసాలలో ఏవైన నాల్గింటికి విగ్రహ వాక్యములు వ్రాసి అవి ఏ సమాసాలో గుర్తించండి. 4X1=4

1) చోరభయము 2) అష్టాంగము 3) కొదమసింగము
5) కుబ్జవామనులు 5) అనేకము 6) కోపానలము

(ఇ) క్రింది పద్యములలొ ఒక పద్యంలో గల అలంకారాన్ని గుర్తించి లక్ష్య లక్షణ సమన్వయం చేయండి. 4X1=4

(1). రాజునకు విజయమూలము
రాజిత మంత్రంబు సుస్థిరముగ దానిన్
రాజాన్వయ రక్షించితే ధ
రాజనులకు కర్ణగోచరము గాకుండన్
లేదా

(2). బాలుడు కోపంబు ప్రకటంబు గాగ
కొదమ సింగము భంగి కుప్పించి యెగిరి.

(ఈ) ఈ క్రింది పద్యపాదాలలో ఒక దానికి గణవిభజన చేసి,యతిని గుర్తించి అది ఏ పద్యపాదమో తెల్పండి. 4X1=4

1) " బండారములయందు బరమ విశ్వాసుల భక్తుల దక్షుల బంచితయ్య"
2) దనుజవిభుండు వోయె నిజధామము జేర సతీసమేతుడై జలజ

CLUSTER UNIVERSITY :: KURNOOL

UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026

(SUPPLEMENTARY)

Group : B.A, B.Com, B.Sc Subject :**Life Skills Courses**

Paper Code & Title : C1116- **Human Values and Professional Ethics**

Time: 2 Hrs. Max. Marks: 50

Section A

Answer any FOUR questions **4x5=20 Marks**

1. Importance of human values.
2. Need for quality education.
3. Secularism in Country.
4. Self-esteem
5. Professional integrity.
6. Emotional intelligence
7. Natural Acceptance.
8. Responsibilities towards the body.

Section B

Answer any THREE questions **3x10=30 Marks**

9. Self-exploration is a process of dialogue between "what you are" and "what you really want to be"? Explain and illustrate.

10. Explain about Integration in society?

11. Explain the values diverse for maintaining a harmonious relationship.

12. Explain the right understanding in individuals is the basis for harmony in the family.

13. Discuss about Integrity.

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UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026

(SUPPLEMENTARY)

Group : B.A Subject : **History**

Paper Code & Title : **C1121- Ancient Indian History & Culture**

(From Indus Valley Civil.to 13 Century A.D)

Time:3hours Max. Marks :75

SECTION – A

Answer any FIVE of the following questions **Marks:5x5M=25**

1.Tour Planning

2. Magadha

3. Ashoka Dhamma

4. Kautilya

5.Sangam Literature

6. Nalanda University

7. Arab conquest of Sindh-0712

8. Rani Rudrama

SECTION – B

Answer any FIVE of the following questions **Marks: 5x10M=50**

9. A. Explain the salient features of Indus valley civilization.

OR

B. Write an essay the characteristic features of later-vedic period

10. A. Write about the career and teachings of Gautama Buddha

OR

B. Describe the administration, society, economy and cultural conditions of India during Mauryan period.

11.A. Write about administration, society, economy and cultural conditions of Andhra under Satavahanas.

OR

B. What are the Contribution of Pallavas to Southn Indian Culture.

12. A. Write an essay Gupta period called "The Golden Age" of the Indian History.

OR

B. Evaluate the greatness of Kanishka

13. A. Discribe the Village administration of the Cholas.

OR

B. Describe the socio – economic and religious conditions under Kakatiyas.

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UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026
(SUPPLEMENTARY)

Group : B.A. Subject : **Political Science-I**

Paper Code & Title : **C1122-Introduction to Political Science**

Time: 3Hrs Max Marks:75M

SECTION- A

Answer any 5 questions. Each question carries 5 marks 5x5=25M

1. Scope of Political Science
2. Scientific approach
3. Political Rights
4. Police State
5. Power
6. Natural Rights
7. Liberalism
8. Surplus Value

SECTION- B

Answer all questions. Each question carries 10 marks 5x10=50M

9 a) Discuss the nature and importance of Political Science.

or

b) Write a note on the important elements of a state.

10 a) Discuss the important functions of welfare state.

or

b) Discuss various kinds of equality.

11 a) Write a note on sources of law.

or

b) Elucidate the important civil rights.

12 a) Explain the various kinds of theories of rights.

or

b) Examine the significance of theory of Individualism.

13 a) Discuss the main tenets of socialism.

or

b) Describe the significance of Marxism.

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CLUSTER UNIVERSITY:: KURNOOL

UG FIRST YEAR I SEMESTER END EXAMINATIONS February 2026

(SUPPLEMENTARY)

Group : B.Com (CA) Subject :

Paper Code & Title :C1204-INFORMATION TECHNOLOGY

Duration: 3Hrs Max.Marks:75

SECTION-A

Answer any **FIVE** questions 5X5=25M

1. What are the applications of computers?
2. Write about Hard Disks?
3. Explain about different Browsers?
4. Write short notes on Compilers and Interpreters?
5. Write about Creating tables in MS-Word?
6. Explain about sorting and filtering in MS-Excel?
7. Short notes on Formatting Cells?
8. Explain about different types of creating presentations in PowerPoint?

SECTION-B

Answer All the following questions (Internal Choice) 5X10=50M

9. A) Explain about History and Generation of Computer?

(OR)

B) Explain about different Storage Devices?

10. A) Briefly explain about E-mail?

(OR)

B) Briefly explain about different applications of Softwares?

11. A) Write about

I. Headers and Footers? II Bullets and Numbering?

(OR)

B) Explain about features of MS-Word?

12. A) Write about Excel basic features?

(OR)

B) Explain about charts in MS-Excel?

13. A) Briefly explain about PowerPoint basics and features?

(OR)

B) Briefly explain Inserting clip arts and pictures in PowerPoint?

C1302

CLUSTER UNIVERSITY :: KURNOOL

UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026

(SUPPLEMENTARY)

Group : B.Sc Subject : Chemistry

Paper Code & Title : - **INORGANIC & PHYSICAL CHEMISTRY**

Time: 3 hours Maximum Marks: 75

SECTION-A

*Answer any **FIVE** of the following questions. Each carries **FIVE** marks* *5X5 = 25 M*

1. Explain the structure of borazole.
2. Explain the Magnetic properties of d-block elements?
3. Define Axis of symmetry and Centre of symmetry.
4. Explain Andrew's isotherms of carbon dioxide.
5. Write the applications of liquid crystals.
6. What is solubility product?
7. Write a note on Valence bond theory of metals.
8 Explain the Pseudo halogens.

SECTION-B

*Answer **ALL** the questions. Each carries **TEN** marks.* *5X10 – 50 M*

9. a. Explain the classification of oxides based on oxygen content

OR

b. . Exolain the structure of AX_3, AX_5 and AX_7 type of interhalogens.

10. a. Explain the colours and Variable oxidation numbers of d-block elements.

OR

b. What is Lanthanide contraction and explain the consequences of lanthanide contraction.

11. a.

OR

b. Explain different types of crystal defects.

12. a. Derive the relationship between critical and Van der-Waals constants.

OR

b. i. Write a note on Smectic and Nematic liquid crystals.

ii. Write the differences between liquid crystals and solid/liquid.

13. a. Explain the Lead-Silver system.

OR

b.Explain the experimental determination of molar mass of a non volatile solute using Osmotic pressure.

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C1305

CLUSTER UNIVERSITY :: KURNOOL

UG First year I Semester End Examinations - February 2026

Subject: MICROBIOLOGY

Paper I: Introduction to Microbiology and Microbial Diversity

Time: 3 Hours Max Marks: 75

PART – A

Answer any **FIVE** of the following questions. Each Carries **FIVE** marks 5x5=25 Marks

1. Alexander Fleming
2. Mycoplasma
3. Structure of Gram-Positive bacteria cell wall
4. Enrichment Media
5. Lyophilization
6. Capsule Staining
7. General Characteristics of Protozoa
8. Serial dilution Method

PART – B

Answer **ALL** the questions. Each Carries **TEN** Marks 10x5-50 Marks

9. (a) Write about Contributions of Louis pasteur to Microbiology.

(or)

(b) Explain about in detail any two classifications of Microorganisms.

10. (a) Explain ultra-structure of bacteria.

(or)

(b) Describe the general characters of Protozoa

11. (a) Write about in detail Replication of Bacteriophage

(or)

(b) Write an essay on General Characters and Structure of Virus

12. (a) Explain about in detail preservation and Maintanance of Microorganism

(or)

(b) Write about different types of Culture Media

13. (a) Write about in detail Acid fast-Staining Method

(or)

(b) Define Sterilization and explain different types of chemical Methods of Sterilization

C1308

CLUSTER UNIVERSITY :: KURNOOL

UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY-2026

(SUPPLEMENTARY)

Group : B.Sc Subject :**Zoology-I**

Paper Code & Title :_-ANIMAL DIVERSITY -BIOLOGY OF NON CHORDATES

Time: 3 hours Max.Marks: 75

SECTION-A

Answer any five of the following questions. Each carries Five Marks 5x5 =25 M

1. General characterstics of Protozoa
2. Types of spicules
3. Trematoda
4. Cestoda
5. Obelia Medusa
6. Hirudinea class
7. holothuroidea
8. Bipinnaria larva

SECTION -B

Answer all the questions .Each question carries **TEN** marks 5x10=50

9. a) Write an essay on types of Reproduction in Protozoa?

(Or)

b)What a detailed note on polymorphism in Coelenterates?

10. a) Write about the life cycle and Pathogenicity of Fasciola hepatica?

(Or)

b) Write the life history of *Fasciola hepatica*

11. a) Write about the general characters and classification of Annelida upto classes?

(or)

b) Why peripatus is called connecting link? Write a detailed note on affinities ?

12. a) Write General characters of Arthropoda and classification up to classes?

(Or)

b) Write in detail about the pearl formation in Pelecypoda

13. a) Explain Water vascular system in Starfish?

(or)

b) Write about Balanoglossus structure and affinities

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UG FIRST YEAR- I SEMESTER END (SUPPLEMENTARY) EXAMINATIONS, FEBRUARY 2026

Group :B.Sc. Sub: MATHEMATICS

Paper Code & Title: C1310-DIFFERENTIAL EQUATIONS

Time : 3 Hrs Max.Marks:75

SECTION-A

Answer any Five questions. Each question carries 5 marks. 5 X 5M=25M

1. Solve: $(x^2 + y^2 + x)dx - (2x^2 + 2y^2 - y)dy = 0.$
2. Solve: $(1 + x)\frac{dy}{dx} - xy = 1 - x.$
3. Find the orthogonal trajectories of the family of rectangular hyperbolas $xy = a^2$, where a is the parameter.
4. Solve: $y = 2xp + x^2p^4$
5. Solve: $(D^2 + 4)y = \sin 2x$
6. Solve: $(D^3 + D^2 + 4D + 4)y = 0.$
7. Solve: $(D - 1)^3y = xe^x$
8. Solve:$(x^2D^2 + xD - 1)y = 0.$

SECTION-B

Answer ALL the Five questions. Each question carries 10 marks. 5 X 10M = 50M.

9. (a) Solve: $x^2y\,dx - (x^3 + y^3)dy = 0.$ (OR)

   (b) Solve: $(1 - x^2)\frac{dy}{dx} + 2xy = x\sqrt{1 - x^2}$

10. (a) Find the orthogonal trajectories of the family of curves $r = a(1 - \cos\theta)$ where a is the parameter. (OR)

    (b) Solve: $p^2 + 2py\cot x = y^2$

11. (a) Solve:$(D^3 - 5D^2 + 7D - 3)y = e^{2x}\cos hx$ (OR)

    (b) Solve: $(D^2 - 4D + 4)y = x^3$

12. (a) Solve: $\frac{d^2y}{dx^2} + 3\frac{dy}{dx} + 2y = xe^x\sin x$ (OR)

    (b) Solve: $(D^2 - 4)y = x\sin hx$

13. (a) Solve: $(D^2 + a^2)y = \tan ax$ by variation of parameter's method (OR)

    (b) Solve: $(x^2D^2 - xD - 3)y = x^2\,logx$

C1311

CLUSTER UNIVERSITY:: KURNOOL

UG FIRST YEAR I SEMESTER END EXAMINATIONS FEBRUARY 2026

(SUPPLEMENTARY)

Group : B.Sc

Subject :**Computer Science**

Paper Tit e : - **Problem Solving in C**

Time: 3Hrs

Max. Marks: 75

Section-A

Answer any FIVE of the following questions **[5x5=25M]**

1. Explain the characteristics of computers?
2. Write about basic data types in C?
3. With an example explain break and continue statements in C?
4. Write short notes on array?
5. How to read a string from the standard input device?
6. Discuss about parameter passing mechanism in C?
7. Discuss about enumerated data types?
8. With an example explain about Pointers?

Section-B

Answer FIVE Questions **[5x10=50M]**

9. a) Explain about Algorithm and Flowchart? Explain with examples?

(OR)

b) Explain about different generations of programming languages?

10. a) Briefly explain about different Operators in C with an example?

(OR)

b) Explain about Decision Control statements in C? give examples?

11. a) Briefly explain about types of arrays and explain declaration and initialization of arrays with example?

(OR)

b) with and example explain about Character handling functions in C?

12. a) Explain about Storage classes in C?

(OR)

b) Explain about structures and unions with examples?

13. a) Explain about Dynamic memory allocation functions with examples?

(OR)

13. b) Briefly explain about File handling in C with an example?

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CLUSTER UNIVERSITY: KURNOOL

UG FIRST YEAR- I SEMESTER END (SUPPLEMENTARY) EXAMINATIONS, FEBRUARY 2026

Group :B.Sc. Sub: STATISTICS

Paper Code & Title: C1313 : Descriptive statistics and probability

Time : 3 Hrs Max.Marks:75

SECTION-A

Answer any Five questions. Each question carries 5 marks. **5 X 5M=25M**

1. Explain the difference between questionnaire and schedule.
2. Define standard deviation? State its merits and demerits
3. Define Central tendency and discuss two of its merits and demerits.
4. Derive the eeffect of change of origin and scale on moments.
5. Explain various definitions of Probability.
6. From the deck of 52 cards, what is the probability that if one card is drawn it is heart or a King?
7. Define and differentiate between a Probability Mass Function (PMF) and a Probability Density Function (PDF).
8. Define Mathematical Expectation? State its properties

SECTION-B

Answer ALL the Five questions. Each question carries 10 marks. **5 X 10M = 50M.**

9. a) Distinguish between primary data and secondary data.

(OR)

b) Find median and mode from the following data

Income (Rs)	90-100	100-110	110-120	120-130	130-140	140-150	150-160
Frequency	16	22	45	60	50	24	10

10. a) Explain Skewness and Kurtosis and its measures.

(OR)

b) Derive the relationship between central moments in terms of raw moments.

11. a) State and prove addition theorem on probability for n events

(OR)

b) State and prove Boole's inequality.

12. a) The diameter of an electric cable, say X, is assumed to be a continuous R.V with p.d.f.

$$f(x) = kx\,(2-x), 0 \le x \le 2$$
$$= 0, \text{ otherwise.}$$

i) Determine the value of the constant k that makes $f(x)$ is a valid p.d.f. and

ii) Calculate the probability $P(1 \le X \le 5)$.

iii) Find a number b such that $P(X \le b) = 0.5$.

(OR)

b) A random variable X has the following probability function.

X	0	1	2	3	4	5	6	7	8
P(x)	a	3a	5a	7a	9a	11a	13a	15a	17a

i) Determine the value of 'a'

ii) Find $P(< 3)$, $P(X \ge 3)$, $P(0 < X < 5)$

13. a) Define Moment Generating Function? Derive its properties

(OR)

b) State and prove Chebechev's inequality.

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