PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

Waddepally, Dist: Hanumakonda-TS

B.SC. (CBCS) Examinations – Feb/Mar 2021-22

Paper-I: SEMESTER-I

FACULTY OF SCIENCE

Applied Nutrition

Time: 3 hrs   Max. Marks: 70

SECTION – A

Answer any FIVE (5) questions of the following: (5X6=30)

1. Define Nutraceuticals?

2. What is glycogen. Add a note on its functions?

3. What are Proteins. Write a note on types of Proteins?

4. Differentiate between DNA & RNA?

5. What are the functions of lipids?

6. Add a note on β-oxidation of fatty acids?

7. Add a note on energy value of food?

8. What is Physiological Fuel Value?

SECTION – B

Long answer type questions. Answer any FOUR (4) questions from the following   (4x10=40)

1. a) Define Nutrition. Add a note on the proximate principles?

    (or)

    b) Write an essay on the nutritional significance & digestion & absorption of carbohydrates?

2. a) What are proteins. Write an essay on the deficiency of proteins?

    (or)

    b) Write an essay on the composition, structure & biological function of RNA?

3. a) Give a note on the digestion & absorption of fats.

    (or)

    b) Write an essay on the chemical properties & functions of lipids?

4. a) What is energy metabolism. Add a note on different methods of determination of energy value of food?

    (or)

    b) What is BMR. Add a note on factors affecting BMR?

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

Waddepally, Dist: Hanumakonda-TS

B.A./B.COM./B.SC. (CBCS) Examinations -2021-22

Paper-I: SEMESTER-I

FACULTY OF SCIENCE

Cell biology and Genetics

Max.Time: 3 hrs   Max.Marks: 70

SECTION-A

Answer any **SIX (6)** questions of the following

(6x5=30)

1. Endoplasmic reticulum
2. Fluid mosaic model
3. Binary fission
4. Eukaryotic cells interphase
5. Co-Dominance
6. Dihybrid ratio
7. Gene mapping
8. Mitochondrial inheritance

SCETION-B

Long answer type questions. Answer any **FOUR (4)** questions from the following

(4x10=40)

1. A) Write the specialized chromosomes - Polytene and Lampbrush?

    (OR)

    B) Explain the structural and numerical chromosomal aberrations?

2. A) Write down the intrinsic and extrinsic events of apoptotic pathway?

    (OR)

    B) Discuss the various events of meiosis and their significance.

3. A) Discuss sex determination in man and drosophila?

    (OR)

    B) Write the Mendel's laws of inheritance with suitable examples.

4. A) Explain the Non-Mendelian inheritance with one suitable example.

    (OR)

    B) Add a note on Hardy-Weinberg equilibrium and factors which influence it?

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
Waddepally, Dist: Hanumakonda-TS

B.A./B.COM./B.SC. (CBCS) Examinations -2021-22

Paper-I: SEMESTER-I

Business Organization & Management

Time:3hrs

Max.Marks:70

Section – A

I) Answer any FIVE from the following questions (5X4=20)

a) Sole trading — సొంత వ్యాపారం

b) Unlimited liability — అపరిమిత ఋణభాద్యత

c) Articles of Association — కంపెనీ నియమావళి

d) Prospectus — పరిచయ పత్రం

e) Scientific Management — శాస్త్రియ నిర్వహణ

f) Staffing — సిబ్బందికరణ

g) Management by Objectives — ధ్యేయాల ద్వారా నిర్వహణ

h) Span of Supervision — పర్యవేక్షణ పరిధి

i) Centralization Vs Decentralization. — కేంద్రీకరణ Vs వికేంద్రీకరణ

j) Requirements of effective control — సమర్ధవంతమైన నియంత్రణకు గల ఆవశ్యకాలు

Section – B

Answer any FIVE from the following (5X10=50)

1. Define Business. Discuss its characteristics.

వ్యాపారమును నిర్వచించి, వ్యాపార లక్షణాలను చర్చించుము.

(OR)

2. What is Partnership business? Explain its advantages and disadvantages.

భాగ్యస్వామ్య వ్యాపారం అనగానేమి? భాగ్యస్వామ్య వ్యాపారం యొక్క లాభాలను మరియు నష్టాలను వివరించండి.

3. Explain the characteristics of a Joint Stock Company?

జాయింట్ స్టాక్ కంపెనీ యొక్క లక్షణాలను వివరించండి.

(OR)

4. What do you mean by Memorandum of Association? Enumerate the different clauses of it.

సంస్థాపన పత్రం అనగానేమి? సంస్థాపన పత్రం లోని వివిధ క్లాజులను వీశాదీకరించండి.

5. Define Management. Discuss its characteristics.

నిర్వహణ ను నిర్వచించి, దాని యొక్క లక్షణాలను చర్చించండి

(OR)

6. Explain Henry Fayol principles of management.

హన్రి ఫాయోల్ నిర్వహణ సూత్రములను వివరించండి.

7. What is Planning? Discuss its characteristics.

   ప్రణాళికరణ అనగానేమి? దాని యొక్క లక్షణాలను చర్చించండి.

(OR)

8. Explain the factors that determine the span of supervision.

   నిర్వహణ పరిధి ని నిర్ణయించే కారకాలను వివరించండి

9. What is Delegation of authority? Explain the principles of effective delegation.

   అధికార ప్రధానం అనగానేమి? సమర్ధవంతమైన అధికార ప్రధానం సూత్రాలను వ్రాయండి.

(OR)

10. Discuss the principles of effective coordination.

   సమర్ధవంతమైన సమన్వయము సూత్రాలను వ్రాయండి.

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PINGLE GOVT.COLLEGE FOR WOMEN(AUTONOMOUS)
FACULTY OF SCIENCE / I-SEMESTER END EXAMINATIONS FEB/MAR-2022
B.Sc (Life Sciences)
BOTANY-I
(Microbial Diversity of Lower Plants)

Time: 3 Hrs]   [Max. Marks: 70

Section – A

Answer any Five (6) Questions. Each Question carries Five (5) marks.   *6 x 5 = 30*

1.	Characteristics of Archaebacteria
2.	Structure of Bacteriophage
3.	Polysiphonia Carposporophyte
4.	Pigments in Algae
5.	Asexual reproduction in Pencillium
6.	Economic importance of Lichens
7.	Internal structure of Anthoceros thallus
8.	Equisetum Cone

Section – B

Answer any Three (4) Questions. Each Question carries Fifteen (10) marks.   *4 x 10 = 40*

9.	(a) Write an essay on the cell structure of Eubacteria with a labeled diagram. (or) (b) Explain about lytic life cycle in T-even virulent phages.
10.	(a) Explain the general characters of Blue Green Algae. (or) (b) Describe the structure of sex organs in Chara.Add a note on fertilisation.
11.	(a) Explain the asexual reproduction in albugo. (or) (b) What are macro cyclic fungi ? Explain the three stages of development in the wheat plant ?
12.	(a) Write about structure of sporophyte in Polytrichum. (or) (b) Describe the various types of stele in Pteridophyta.Add a note on their evolution.

PINGLE GOVERNMENT COLLEGE FOR WOMEN(Autonomous)
WADDEPALLY, Dist:Hanumakonda
FACULTY OF SCIENCE
B.Sc. I-Semester Examination – Feb/Mar 2022
CHEMISTRY
Paper I
(Under CBCS)

Time: 3hrs   Max. Marks : 70

SECTION –A (Marks: 6 x 5 = 30)
Answer any SIX questions

1. What are the postulates of Fajans' rule?
2. Explain the structures of diborane
3. Apply inductive effect to explain acidic strengths of halogenated carboxylic acids
4. What is Aromaticity? Explain with examples
5. What is meant by photoelectric effect? Explain
6. State and explain Raoult's law
7. Explain common ion effect with examples
8. What are laws of crystallography?

SECTION –B (Marks: 4 x10 = 40)
Answer any FOUR questions

1. a) Draw MOED of N_2 molecule. Calculate the Bond order.
   (or)
   b) What are Silicones? Write about different types of silicones.
2. a) What is Mesomeric effect? What are its applications?
   (or)
   b) What is Markonikov`s rule ? Explain with examples

3. a) Write a note on Joule-Thompson effect and liquefaction of gases by Linde`s method
   (or)
   b) What are Azeotropes? Explain with examples
4. a) What are enantiomers and diastereomers? Explain with examples
   (or)
   b) Explain Bayer's strain theory

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, HANUMAKONDA
FACULTY OF SCIENCES
B.Sc. (SEMESTER – I) EXAMINATION
PAPER – I
(COMPUTER SCIENCE 1)

PROGRAMMING IN C

TIME: 3 HRS   **MAX.MARKS:70**

SECTION-A

Answer any FIVE questions   (5 X 6 =30Marks)

1. Explain, How the Computers are classified?
2. Discuss the generations of Computer Languages?
3. Write about Escape Sequences?
4. Explain break statement with program?
5. Explain Storage Classes?
6. What is call by value and call by reference explain with example?
7. How to declare a Union? Explain union Initialization?
8. What is file and explain the different types of files in C?

SECTION-B

Answer all questions   (4 X 10=40Marks)

9. a) Explain the structure of program. Write a C program for prime number?

OR

   b) What is Token? Explain C tokens in detail?

10.a) What is an Array? Explain the usage of various types of arrays with Program?

OR

   b) What is loop? Explain different types of loops in C?

11.a) What is Function? Explain user defined functions?

OR

   b) What is a pointer? How it is using pointer to structures?

12.a) Explain usage of Enumeration data type with days of a Week?

OR

   b) What is File? Explain working with binary Files?

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, HANUMAKONDA
FACULTY OF SCIENCES
B.Sc. (SEMESTER – I) EXAMINATION
PAPER – I

(Data Science)
Fundamentals of Information Technology

Time : 3 Hours   Max. Marks: 70 M

Section – A

Answer any FIVE (5) questions of the following   Marks: 5 x 6 = 30 M

1. What is a Computer? Explain the features of Computer.
2. Write a detail note on Classifications of Computer.
3. Define the terms LAN, WAN, Internet.
4. Explain the components of Software process.
5. Explain the structure of C program.
6. Explain about tokens.
7. What is Pointer? Explain with suitable program.
8. Explain difference between Structure & Unions.

Section – B
Long answer type questions

Answer any FOUR (4) questions of the following   Marks: 4 x 10 = 40M

9. Explain Block diagram of Computers.

   OR

   Explain Input & Output Devices

10. Explain the classifications of programming Languages

    OR

    Explain about Software.

11. Explain different operators in C Language.

    OR

    Explain iterative statements.

12. Explain about arrays.

    OR

    Explain about Functions.

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, Dist: Hanumakonda

FACULTY OF SOCIAL SCIENCES
B.A. (CBCS) EXAMINATION
Paper-I : SEMESTER-I
ECONOMICS
(Micro Economics)

Time: 3 hours

Max Marks 70

SECTION – A (5X4=20 MARKS)
Answer any five (5) of the following questions

1. Cardinal utility
2. Price consumption curve
3. Production Function
4. Iso-cost line
5. Opportunity cost
6. Average and Marginal Cost
7. Degrees of Price Discrimination
8. Selling costs
9. Profit maximization
10. Volume analysis

SECTION – B (5X10=50)
Answer all the following questions

11. A) Write the properties of the Indifference Curve
            OR
B) Explain the derivation of Demand Curve with the help of indifference curve

12. A) Explain different types of the Laws of Return to Scales.
            OR
B) Describe the properties of Iso- Product curve
13. A) Define Average Revenue and Marginal Revenue and explain the relationship between them.
            OR
B) Explain the different Cost concepts.
14 A) Define Oligopoly Market, explain the Kinked demand curve in the market.
            OR
B) Explain the equilibrium of the firm under Monopolistic Competition Market.
15. A) Define Business Firm and explain the characteristics of business firm.
            OR
B) Explain the Break- Even Analysis

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, Dist: Hanumakonda

FACULTY OF SOCIAL SCIENCES
B.A. (CBCS) EXAMINATION
Paper-I : SEMESTER-I
ECONOMICS
(Micro Economics)

Time: 3 hours   Max Marks 70

SECTION – A (5X4=20 MARKS)
Answer any five (5) of the following questions

1. కార్డినల్ విశ్లేషణ

2. ధరవినియోగ రేఖ

3. ఉత్పత్తి ఫలం

4. సమవ్యయరేఖ

5. అవకాశ వ్యయం

6. సగటు మరియు ఉపాంతవ్యయం

7. ధర విచక్షణ డిగ్రీలు

8. అమ్మకం వ్యయాలు

9. లాభ గరిష్టకరణ

10. వాల్యూమ్ విశ్లేషణ

SECTION – B (5X10=50)
Answer all the following questions

11.ఏ)ఉదాసీనత వక్రరేఖల లక్షణాలను రాయండి (లేదా)

బి) ఉదాసీనత వక్రరేఖ ద్వారా డిమాండ్ రేఖను రాబట్టుము

12.ఏ) వివిధ రకాల తరహానుసరించి ప్రతిఫలాలను వివరించండి (లేదా)

బి) సమోత్పత్తి రేఖల లక్షణాలను వివరించండి

13.ఏ)సగటు మరియు ఉపాంత రాబడి లను నిర్వచించి , వాటి మధ్య గల సంభందాన్ని వివరించండి(లేదా)

బి) వివిధ రకాల వ్యయ భావనలను వివరించండి

14. ఏ)పరిమిత స్వామ్యం మార్కెట్ ను నిర్వచించి,కింక్ డిమాండ్ రేఖను వివరించండి (లేదా)

బి)ఏకస్వామ్య పోటీ మార్కెట్ నందు గల సమతౌల్యం ను వివరించండి

15.ఏ)వ్యాపార సంస్థను నిర్వచించి, లక్షణాలను తెలపండి (లేదా)

బి) బ్రేక్ ఈవెన్ బిందువును వివరించండి

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
Waddepally, Dist: Hanumakonda-TS
B.A./B.COM./B.SC. (CBCS) Examinations -2021-22
SEMESTER-I
Paper-I
Subject: English

Time: 3Hours

Max.Marks: 70

Answer any **five** of the following questions in serial order: 5x10=50

1x10=10

1. (a) Describe the character of the astrologer.
   Or
   (b) How does the setting add to the theme of the story, An Astrologer's Day?

2. (a) Explain 'Crafty men condemn studies, simple men admire them, and wise men use them' in the light of the essay 'Of Studies' 1x10=10
   Or
   (b) According to Bacon, how can a reader make the best use of books?

3. (a) How does the poet manage his anger in different situations? 1x10=10
   Or
   (b) Discuss the importance of the title 'A Poison Tree'

4. (a) How does the fugitive manage to convert the sergeant into a patriot? 1x10=10
   Or
   (b) How does the fugitive use the ballads in the play The Rising of the Moon?

5. (a) What are the diphthongs? Write five words that have diphthongs. 1x10=10
   Or
   (b) Write the diphthongs in the words: <u>ea</u>r, <u>eigh</u>t, b<u>oy</u>, p<u>ure</u>, g<u>o</u>, <u>air</u>, <u>ice</u>, <u>our</u>, sh<u>ow</u>, t<u>a</u>ke

I. Answer any **four** of the following: 5x4= 20

1. Fill in the blanks with correct form of noun/pronoun 5x1=5
   a) The man is <u>happy</u>. His ---(happily/happiness) reflected in his work.
   b) The lady was cruel. Her ---(cruelty/cruelly) towards the baby is unbearable.
   c) They enjoyed--- (themself/themselves)
   d) This is my chair and that is ----(yours/your).
   e) Everyone has to take off ---(his/their) shoes before entering the lab.

2. Fill in the blanks with a suitable adjectives 5x1=5

   (superior, any, elder, older, some, a few)

a) The servant has not been given --- food for two days.
b) I stayed with my friend for ---- days only.
c) My sister is ---- to me.

d) This washing powder is much ---- to that.
e) Which of your brothers is ----, Gopal or Mukesh?

3. Transcribe the following words phonetically: 5x1=5

talk, blue, laugh. arm, school, zoo

4. Pick out the rightly spelt words: 5x1=5
   a) Commite   committee   comittee   commitee
   b) Vacume   vocume   vocuume   vaccum
   c) Leiftenent   lieutenant   leiutenant   leftennet
   d) Important   impartent   important   importnant
   e) Attendance   attandance   attendance   atendance

5. Correct the following sentences: 5x1=5
   a) I have to buy new furnitures.
   b) We enjoyed the sceneries in Ooty.
   c) One should do his duty.
   d) The couple loves one another.
   e) This is the most perfect answer.

6. Write down English words for the following phonetic transcriptions: 5x1=5
   1. / weɪt/ 2. /ɪŋglɪʃ/ 3./neɪtʃə/ 4. /æple/ 5. /θɪŋk/

7. Read the passage and answer the questions given below: 5x1=5

It is impossible to take a walking the country without an average townsman- especially, perhaps in April or May- without being amazed at the vast continent of his ignorance. It is impossible to a walk in the country oneself without being amazed at the vast continent of one's own ignorance. Thousands of men and women live and die without knowing the difference between a beech and an elm, between the song of thrush and the song of a blackbird. Probably in a modern city the man who can distinguish between a thrush's and blackbird's song is the exception. It is not that we have not seen birds. It is simply that we have not noticed them. We have been surrounded by birds all our lives, yet so feeble is our observation that many of us could not tell whether or not the chaffinch sings, or the coulor of the cuckoo.

1. What is impossible for an average townsman?
2. What is being amazed at when one take's a walk in the country?
3. How do some people lead their life?
4. Name the birds mentioned in the passage.
5. Find the antonym of 'limited' from the passage.

8. Read the passage and answer the questions given below: 5x1=5

2

Dolphins are regarded as the friendliest creatures in the sea and stories of them helping drowning sailors have been common since Roman times. The more we learn about dolphins, the more we realize that their society is more complex than people previously imagined. They look after other dolphins when they are ill, care for pregnant mothers and protect the weakest in the community, as we do. Some scientists have suggested that dolphins have a language but it is much more probable that they communicate with each other without needing words. Could any of these mammals be more intelligent than man? Certainly the most common argument in favor of man's superiority over them that we can kill them more easily than they can kill us is the least satisfactory. On the contrary, the more we discover about these remarkable creatures, the less we appear superior when we destroy them.

1. Why the dolphins are considered friendliest creatures?
2. What is great about dolphins' society?
3. How do the dolphins communicate?
4. In what aspect is man supposed to be superior to the dolphins?
5. Pick out the word meaning 'complicated'

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

Waddepally, Dist: Hanumakonda-TS

B.A./B.COM./B.SC. (CBCS) Examinations -2021-22

SEMESTER-I

Paper-I

Subject: Environmental Studies

(Ability Enhancement Course-1)

Time: 2Hours   Max Marks: 40

I)   **Write short answer of the following**   6X4=24 (Marks)

1. Food Web
   (ఆహారపు వల)

2. Hot Spots
   (హాట్ స్పాట్స్)

3. Rain water harvesting
   (వర్షపు నీటి నిల్వ)

4. Ozone layer depletion
   (ఓజోన్ పొర క్షీణత)

5. Wild life protection
   (వన్య జీవ రక్షణ)

6. Human Rights
   (మానవ హక్కులు)

II)   **Essay Questions**   2X8 =16 (Marks)

7. a) write briefly on the conservation of biodiversity in India
    భారత దేశంలో జీవ వైవిధ్య సంరక్షణ గుర్చి రాయండి .

                    (OR)
    b) Write an essay on water shed management
    నీటి నిర్వహణ యాజమాన్య పద్ధతి గురించి వ్యాసం రాయండి.

8. a) Enumerate various pollutants and their adverse effect over the life
    జీవం పై కాలుష్య కారకాల ప్రభావంను తెలియజేయండి.

                    (OR)
    b) Briefly write about the role of technologies on human health
    మానవ జీవం పై సాంకేతిక శాస్త్ర ప్రభావాన్ని విశదీకరించండి.

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
Waddepally, Dist: Hanumakonda-TS
B.COM (CBCS) Examinations -2021-22
Paper-I: SEMESTER-I
FINANCIAL ACCOUNTING – I

MAX TIME 3 HOURS   MAX MARKS – 70

PART- A
Answer any five (5) from the following questions   (Marks 5x4=20)

a. What do you mean by convention of conservatism?

b. Journalise the following transactions
   2021
   Jan, 1 Rajender commenced business   Rs. 3,50,000
   Jan, 3 Purchased Machinerty   Rs.   80,000
   Jan 6 Purchased furniture from Maruthi Furniture &Co   Rs.   30,000
   Jan 12 Purchased goods   Rs.   15,000

c. What are the advantages of Subsidiary Books?

d. From the following particulars, prepare Sales Book of Anil Electronics
   2021
   Jan 5   Sold to Raghu & Co on credit
           10 Samsung LED TVs @ Rs. 40,000
           05 LG washing machines @ Rs.20,000
       Jan 8   Sold to Rama Electronics
               06 Whirlpool Refrigerators @Rs.180,000
               08 Sony sound bars @ Rs.20,000

e. What is the need for the preparation of Bank Reconciliation Statement?

f. From the following particulars prepare Bank Reconciliation statement as on 31-03-2021
   Balance as per cash book   Rs. 30,000
   Unpresented cheques at bank   Rs. 5,000
   Cheques deposited but not collected Rs. 2,000
   Interest collected by the bank   Rs. 1,000

g. Write a short note on Compensating Errors.

h. What is straight line method of depreciation?

i. What do you mean by manufacturing account? What are its feature?

j. Pass necessary adjustment entries to the following:
i. Closing stock Rs. 15000
ii. Outstanding expenses Rs. 1200
iii. Prepaid expenses Rs. 350

1

Answer all the following questions (Marks 5x10=50)

I   (A). Define Accounting Principles. Discuss the types of accounting Principles.

(OR)

(B) Pass Journal Entries, make ledger postings and prepare trial balance for the following transactions in the books of Ramesh.

Date	Particulars	Amount
2015 Mar 1	Commenced business with cash	1,00,000
Mar 4	Cash deposited into bank	50,000
Mar 9	Purchased Machinery payment made by cheque	20,000
Mar 15	Purchased goods for cash	15,000
Mar 20	Goods sold for cash	25,000
Mar 30	Salaries	4,000

II   (A) What do you mean by subsidiary books? Explain different types of subsidiary books.

(OR)

(B) From the following particulars prepare Three Column Cash Book of Susmitha

Date	Particulars	Amount
May 1	Cash in hand	5,000
	Cash at Bank	19,000
May 5	Cash deposited into Bank	6,000
May 6	Bought goods for cheque	3,000
May 8	Purchased Furniture	2,000
May 10	Paid to Ganesh for full settlement of Rs. 950	900
May 15	Drew for office use out of Bank	500
May 18	Bharath paid directly into the bank	4,000
May 25	sales	1500
May 28	Received from Subhash in full settlemet of his account Rs. 1,200	1,100

III (A) What is Bank Reconciliation Statement? What are the reasons for difference between cash book and pass book balances?

(OR)

(B) From the following particulars prepare Bank Reconciliation Statement as on 31-08-2021

Balance as per pass book   45,000.

Cheques deposited but not collected by the bank   15,000.

Bank charges debited by bank but debit memo received from bank in September Rs. 600.

Interest on securities credited only in pass book   Rs. 1,500.

Cheques issued but not presented for payment Rs. 25,000.

Cheque issued for an amount of Rs.1000 but Cash book is credited with only Rs.100

IV   (A)   Explain different types errors and how they are rectified?

<center>(OR)</center>

     (B)   On 1st January 2015 Machinery was purchased for Rs. 50,000. On 1st July 2016 additions were made to the extent of Rs. 10,000. On 1st April 2017 further additions were made to the extent of Rs. 6,500. On 30th June 2018 machinery which was purchased in the year 2015 was sold for Rs. 30,000. From the above particulars given by Ramu, prepare Machinery account for period 2015 to 2018 if depreciation is charged at 10% P.A. on diminishing balance method. Assume that books are closed every year on 31st December.

V   (A)   From the following information prepare final accounts of Radhika Traders as on 31 -03-2020

Particulars	Amount Rs.
Capital	20,000
Drawings	4,000
Purchases	41,600
Opening stock	13,800
Sales	55,000
Creditors	16,200
Rent	2,000
Furniture	1,800
Machinery	10,000
Travelling Expenses	1,300
Bad debts	240
Debtors	15,000
Returns inwards	600
Returns outwards	1,160
Carriage inwards	800
Wages	650
Salaries	1800
Interest	960
Discount (Cr)	540
Carriage outwards	1400
Insurance	1,800
Bank loan	6,000
Cash in hand	1,150

Adjustments :
1. Closing stock was Rs. 9,500
2. Insurance prepaid Rs. 200
3. Outstand Wages 100 and Rent 150
4. Interest on bank loan 350
5. Depreciated machinery and furniture at 10%

<center>(OR)</center>

<center>3</center>

(B) Prepare the final accounts of Bhadrakali Enterprises from the following trial balance for the year ended 31-03-2021.

Debit	Amount Rs.	Credit	Amount Rs.
Purchases	4,50,000	Sales	7,21,005
Machinery	1,15,500	Capital	1,25,000
Returns	18,000	Returns	24,009
Sundry debtors	1,42,000	Sundry creditors	98,000
Cash at bank	34,655	Provision for bad	7,500
Stock (01-04-2020)	64,504	debts	
Rate & Taxes	9,800		
Wages	55,000		
Salaries	67,000		
Frieght	6,555		
Furniture	12,500		
	9,75,514		9,75,514

Adjustments:
Closing stock Rs. 98,000.
Outstanding salaries Rs.18,000.
Write off Rs. 4,500 bad debts.
Create a provision for bad debts at 4% on sundry debtors.
Provide 6% depreciation on machinery.
Interest on capital @3% is allowed.

4

PINGLE GOVT. COLLEGE FOR WOMEN(AUTONOMOUS)

Waddepally, Dist:Hanumakonda

FACULTY OF COMMERCE

B.COM(CBCS) Examination

I Semester: Paper-I

Fundamentals of Information Technology

Max.Time : 3hrs

Max. Marks: 50

Section -A

Attempt any FIVE from the following questions (Marks: 5 X 2=10)

a) Define Computer?

b) Impact Printer

c) PROM and EPROM

d) Compact Disk

e) Application Software

f) Macros

g) Compiler

h) Multi programming

i) Star Topology

j) Data Packet

Section -B

Attempt any FIVE from the following questions (Marks: 5 X 8=40)

1) Explain about the various generations of computers?

(OR)

2) What do you mean by an input device? Explain about various input devices?

3) What is Binary Arithmetic? Explain its functioning in programming?

(OR)

4) What is Primary memory? Explain its types?

5) What is system Software? Explain its types?

(OR)

6) Explain the types of Computer languages with examples?

7) What is operating system? Explain its functions?

<div align="center">(OR)</div>

8) What is language processor? Explain various language processors?

9) What is data Communication? Explain various types of media used for data transmission?

<div align="center">(OR)</div>

10) Discuss about the hardware and software components used for networking?

1003/2

पिंगिल शासकिय महिला महाविद्यालय (ऑटोनामस)

वड्डेपल्लि, हनुमकोंडा, टी. एस

यू.जि.सी, सी. बी. सी.एस

बी.ए, बी.काम, बी.एस.सी

प्रधम सत्र - 2021-2022

हिन्दी - I

समय : 3 घण्टे   अंक : 70

I. छः प्रश्रों के उत्तर दीजिए ।

   6×5=30

1) "चरित्र" से आप क्या समझते हैं?

2) सूचना के अनुसार बदलिए ।

   a. घोड़ा जा रही है । (लिंग बदलिए)

   b. हाथी जंगल मे जा रहा है । (वचन बदलकर लिखिए)

   c. लडके खेल रहे है । (वाच्य बदलिए)

   d. लड़कियाँ पढ रही है । (भूतकाल मे लिखिए)

   e. दोबी कपडे धा रहा है । (वाक्य को शुद्ध करो)

3) "भाभी" के जीवन की समस्याओं पर प्रकाश डालिए ।

4) भारतीय संस्कृति की क्या विशेषताएं हैं?

5) "राष्ट्र के स्वरूप" के अंग क्या हैं?

6) "छोटा जादुगर" कहानी का उद्देश्य बताइए।

7) "चीफ की दावत" कहानी का पात्र शामनाथ का चरित्र कैसा है?

8) "सद्गति" कहानी किस समस्या पर आधारित है?

II. किन्ही चार प्रश्नों के उत्तर दीजिए

4×10=40

1) चरित्र-संगठन में किन-किन सिद्धांतों की आवश्यकता होती है।

2) "बाजार-दर्शन" निबंध की विषय-वस्तु संक्षेप में लिखिए।

3) "उदारता" और "लालच" के लक्षण लिखिए

4) "भाभी" पाठ का सारांश संक्षेप में लिखिए।

5) निम्न लिखित शब्दों को अंग्रेज़ी में लिखिए।

   1) लेखाकार   2) सलाहाकार   3) निर्देशक   4) अनुवादक

   5) प्रभारी

   6) भत्ता   7) परिपत्र   8) स्वीकृति 9) अनुदान 10) गोपनीय

6) "प्रायश्चित" कहानी का सारांश अपने शब्दों में लिखिए।

7) "सद्गति" कहानी का सारांश लिखिए।

8) "चीफ की दावत" कहानी अपने शब्दों में लिखिए।

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
Waddepally, Hanumakonda
FACULTY OF SOCIAL SCIENCES

B.A (I SEMESTER) EXAMINATION

HISTORY Paper-I

History of India (From Earliest Times to 700 CE)

[Time: 3 Hours]   [Max Marks: 70]

SECTION- A

Answer any five (5) questions of the following: (5 × 4 = 20)

1. Nature and scope of history
2. Epigraphy
3. Caste system
4. Indus script
5. Teachings of Mahavira
6. Lokayatas
7. Ashoka's Dhamma
8. Gandhara art
9. Nalanda University
10. Aryabhatta

SECTION -B

Answer any five (5) questions of the following: (5 × 10 = 50)

1. a) Explain the sources for ancient Indian history
    (or)
    b) What is the impact of ggeographical factors on Indian history
2. a) Write the main salient features of Indus Valley Civilization
    (or)
    b) Explain about the cultural conditions of Vedic period
3. a) Write about the life and teachings of Gautama Buddha
    (or)
    b) Describe the invasion of Alexander and its results
4. a) Explain about Mauryan administration
    (or)
    b) Explain the socio, economic and cultural conditions of the Satavahanas
5. a) Give an account of the cultural achievement of the Guptas
    (or)
    b) Write about the greatness of the Harshavardhana

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) HANAMKONDA

FACULTY OF SOCIAL SCIENCES

B.A (I SEMESTER) EXAMINATION

HISTORY Paper-I

History of India (From Earliest Times to 700 CE)

[Time: 3 Hours]   [Max Marks: 70]

విభాగం- ఎ

కింది వాటిలో ఏవైనా ఐదు (5) ప్రశ్నలకు సమాధానం ఇవ్వండి:   (5 × 4 = 20)

1. చరిత్ర యొక్క స్వభావం మరియు పరిధి

2. ఎపిగ్రఫీ

3. కుల వ్యవస్థ

4. సింధు లిపి

5. మహావీరుని బోధనలు

6. లోకాయతలు

7. అశోకుని ధమ్మం

8. గాంధార కళ

9. నలంద విశ్వవిద్యాలయం

10. ఆర్యభట్ట

విభాగం -బి

కింది వాటిలో ఏవైనా ఐదు ప్రశ్నలకు సమాధానం ఇవ్వండి:   (5 × 10 = 50)

1. ఎ. ప్రాచీన భారతీయ చరిత్రకు సంబంధించిన మూలాలను వివరించండి (or)

   బి. భారతదేశ చరిత్రపై భౌగోళిక ప్రభావం ఏమిటి

2. ఎ. సింధు లోయ నాగరికత యొక్క ప్రధాన ముఖ్య లక్షణాలను వ్రాయండి (or)

   బి. పేద కాలం నాటి సాంస్కృతిక పరిస్థితులు గురించి వివరించండి

3. ఎ. గౌతమ బుద్ధుని జీవితం మరియు బోధనల గురించి వ్రాయండి (or)

   బి. అలెగ్జాండర్ దండయాత్ర మరియు దాని ఫలితాలను వివరించండి

4. ఎ. మౌర్య పరిపాలన గురించి వివరించండి (or)

   బి. శాతవాహనుల సామాజిక, ఆర్థిక మరియు సాంస్కృతిక పరిస్థితులను వివరించండి

5. ఎ. గుప్తుల సాంస్కృతిక సాఫల్యాన్ని తెలియజేయండి (or)

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, HANUMAKONDA
FACULTY OF SCIENCES
B.Sc. (SEMESTER – I) EXAMINATION
PAPER – I

Introductory Microbiology

Max.Time: 3 Hrs   Max. Marks: 70

Section –A
(Short Answers Questions)

Answer any five (5) Questions from the following   (5X6=30)

1. Write about contributions of Robert koch
2. Explain any three methods of chemical sterilization
3. Write about SEM
4. Explain procedure and principle of Simple staining
5. Explain whittaker five kingdom classification
6. Define and differentiate prokaryotes and Eukaryotes.
7. Mycoplasma
8. Nucleoid.

Section-B
(Long answer Questions)

Answer any four (4) questions from the following.   (4x10=40)

1. a).Give detailed account of contributions of Antony Van Leeuwen Hock and Louis Pasture

(OR)

   b).Explain different methods of Heat sterilization

2. a).Write about working principle and construction of Bright field Microscopy

(OR)

   b). Write about principle and procedures of Gram Staining and Acid fast staining.

3. a).What is culture media? Write an essay on types of media.

(OR)

   b). Explain important methods of preservation of microbial cultures.

4. a).Give detailed account of Ultra structure of Bacterial cell wall .

(OR)

   b). Give out lines of structures of bacteria with diagram.

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (Autonomous)
Waddepally, Hanumakonda
Faculty of Science
B.Sc.(Semester-I) Examinations Feb/Mar 2021-22
PHYSICS
(Under CBCS)

Time: 3hrs

Max Marks: 70

SECTION A

ANSWER ANY **FIVE** OF THE FOLLOWING

30 marks

1) Prove that the curl of gradient is zero.
2) What is Divergence of a vector ? Explain its physical significance.
3) Write a short note on Impact Parameter.
4) Verify principle of conservation of angular momentum.
5) What is a central force. Verify that the Central force is conservative.
6) A rod travels with a velocity 60% of velocity of light along the direction of its length. find percentage of contraction of its length.
7) What are lissajous figures ? Mention their applications.
8) Define quality factor. Explain its sigificance.

SECTION B (ESSAY QUESTIONS)

ANSWER ANY **FOUR** OF THE FOLLOWING

40 marks

9) State and prove Stoke's theorem.

(or)

10) State and prove first and second Green's theorems. Find the divergence of the position vector.

11) Explain the motion of a system of variable mass. Derive the expression for final velocity of a rocket.

(or)

12) Derive Euler's equations of motion for a rotating rigid body. Verify conservation of angular momentum using them.

1

13) State Kepler's laws of planetary motion. Prove Kepler's first law.

(or)

14) Describe the Michelson Morley experiment in detail. Derive the expression for fringe shift and explain the negative result.

15) Define simple harmonic motion. Derive the equation of motion of a simple harmonic oscillator.

(or)

16) What are forced oscillations? Derive the equation of motion of a forced oscillator.

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

WADDEPALLY, HANUMAKONDA

FACULTY OF SOCIAL SCIENCES

B.A.I (SEMESTER – I) EXAMINATION

POLITICAL SCIENCE

PAPER – I

Time : 3 Hrs   BASICS OF POLITICAL SCIENCE   Max Marks : 70

SECTION - A

I . Answer any five (5) questions of the following.   5X4=20

1. Political Science – Definition
2. Normative Political Theory
3. Divine Rights Theory
4. Authority
5. Types of Equality
6. Social Justice
7. Nation – Nationality
8. Multiculturalism
9. Political Parties
10. Media

SECTION – B

II. Answer any five (5) questions of the following   5x10=50

1. (a) What is Political Theory? Discuss its' Nature and significance.
   (OR)
   (b) Discuss the Empirical Approach of the study of Political Theory

2. (a) Explain the Historical Evolution Theory
   (OR)
   (b) Describe the concept of Power

3. (a) Define the concept of Liberty and discuss Feminist Perspective of Liberty
   (OR)
   (b) Discuss Liberal Perspective of Equality

4. (a) Explain the Concept of Neo – Liberalism
   (OR)
   (b) Define Nationalism and explain the features of Nationalism

5. (a) Critically Examine the various functions of Legislature
   (OR)

   (b) Discuss the Powers of Judiciary

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY, HANUMAKONDA
FACULTY OF SOCIAL SCIENCES
B.A.I (SEMESTER – I) EXAMINATION
POLITICAL SCIENCE
PAPER – I

Time : 3 Hrs **BASICS OF POLITICAL SCIENCE** Max Marks : 70

SECTION - A 5 X 4 = 20

I. కింది వాటిలో ఏవైనా ఐదు (5) ప్రశ్నలకు సమాధానం ఇవ్వండి.

1. రాజనీతిశాస్త్రం – నిర్వచనం

2. సాధారణ రాజకీయ సిద్ధాంతం (Normative Political Theory)

3. దైవదత్తాధికార సిద్ధాంతం

4. అధికారం

5. సమానత్వం యొక్క రకాలు

6. సామాజిక న్యాయం

7. జాతి – జాతీయత

8. బహుళసాంస్కృతికత వాదం

9. రాజకీయ పార్టీలు

10. మీడియా

II. కింది వాటిలో ఏవైనా ఐదు (5) ప్రశ్నలకు సమాధానాలు రాయండి. (5x10=50)

1. (ఎ) రాజకీయ సిద్ధాంతం అంటే ఏమిటి? దాని స్వభావం మరియు ప్రాముఖ్యతను చర్చించండి (లేదా)

   (బి) రాజనీతి సిద్ధాంతం అధ్యయనం యొక్క అనుభావిక దృక్పథాన్ని చర్చించండి

2. (ఎ) చారిత్రక పరిణామ సిద్ధాంతాన్ని వివరించండి (లేదా)

   (బి) శక్తి భావనను వివరించండి

3. (ఎ) స్వచ్ఛ భావనను నిర్వచించండి మరియు స్త్రీవాద దృక్పథంలో స్వచ్ఛను చర్చించండి (లేదా)

   (బి) సమానత్వం యొక్క ఉదారవాద దృక్పథాన్ని చర్చించండి

4. (ఎ) నవీన –ఉదారవాదం యొక్క భావనను వివరించండి (లేదా)

   (బి) జాతీయవాదాన్ని నిర్వచించండి మరియు జాతీయవాదం యొక్క లక్షణాలను వివరించండి

5. (ఎ) శాసనసభ యొక్క వివిధ విధులను విమర్శనాత్మకంగా పరిశీలించండి (లేదా)

   (బి) న్యాయవ్యవస్థ అధికారాలను చర్చించండి

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PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

WADDEPALLY, HANUMAKONDA

FACULTY OF SOCIAL SCIENCES

B.A.I (SEMESTER – I) EXAMINATION

PUBLIC ADMINISTRATION

PAPER – I

Time : 3 Hrs   BASICS OF PUBLIC ADMINISTRATION   Max Marks : 70

SECTION - A

I . Answer any five (5) questions of the following.   5X4=20

1. Write differences between public and private administration

ప్రభుత్వ ప్రైవేట్ పాలన మధ్య వ్యత్యాసాలు వ్రాయండి

2.Write a note on managerial view

నిర్వహణ దృక్పథం పై ఒక నోట్ వ్రాయండి

3.Koutilya Arthashastra

కౌటిల్యుని అర్ధశాస్త్రం

4.Write the importance of public administration

ప్రభుత్వ పాలన ప్రాముఖ్యతను వ్రాయండి

5.Types of authority

అధికారం రకాలు

6.Explain the acronym POSDCORB

POSDCORB

7.Linking pin

లింకింగ్ పిన్

8.Write about Mc Gregor X-Theory

గ్రెగర్ X-సిద్ధాంతాన్ని వ్రాయండి

9.Write a note on fused society

సంయోజిత సమాజాన్ని గురించి వ్రాయండి

10.Write a brief note on Dr B.R.Ambedkar

డా బి ఆర్ అంబేద్కర్ పై ఒక నోట్ వ్రాయండి

SECTION - B

I . Answer any five (5) questions of the following.   5X10=50

11. a) Define public administration and explain its nature and scope (or)

ప్రభుత్వ పాలన శాస్త్రాన్ని నిర్వచించి దాని స్వభావం పరిధి ని వివరించండి (లేదా)

b)Define public administration and explain its phases of evolution

పాలన శాస్త్రాన్ని నిర్వచించి దాని పరిణామ దశలను వివరించండి

12.a)Discuss the relationship between public administration and other social sciences(or)

ప్రభుత్వ పాలన శాస్త్రానికి ఇతర సాంఘిక శాస్త్రాలతో గల సంభందాన్ని వివరించండి (లేదా)

b)Explain the views of Taylor on scientific management

శాస్త్రియ నిర్వహణపై టేలర్ భావాలను వివరించండి

13. a)Describe the contribution of Fayol to the classical approach(or)

సాంప్రదాయ దృక్పధానికి ఫేయల్ చేసిన కృషిని వర్ణించండి (లేదా)

b)Write an essay on Weber bureaucracy

వెబర్ ఉద్యోగస్వామ్యం పై ఒక వ్యాసం వ్రాయండి

14.a)Write an essay on Hawthorne experiments of Elton mayo(or)

మేయో హాథోర్స్ ప్రయోగాలపై ఒక వ్యాసం వ్రాయండి (లేదా)

b)Explain human Needs Hierarchy

మానవ అవసరాల క్రమానుగత శ్రేణి ని వివరించండి

15.a)Describe F.W.Riggs prismatic model(or)

రిగ్స్ పారదర్శక సమాజ నమూనా ను వర్ణించండి (లేదా)

b)Write a note on Jyothirao pule social justice approach

జ్యోతిరావ్ పులే సామాజిక న్యాయ దృక్పధం పై ఒక నోట్ వ్రాయండి

PINGLE GOVERNAMENT COLLEGE FOR WOMEN (AUTONOMOUS)
WADDEPALLY HANUMAKONDA
FACULTY OF ARTS/SCIENCE/COMMERCE
B.A/B.Sc./B.Com. I SEMESTER EXAMINATION
SANSKRIT SECOND LANGUAGE: PAPER-I

[TIME:3HOURS]   [MAX.MARKS:70]

SECTION - A   भागः- अ   6X5=30

षण्णां प्रश्नानां समाधानानि लिखत।   (Answer any SIX from the following.)

1) श्लोकस्य अनुवादं कुरुत।

   रामः सत्पुरुषो लोके सत्यधर्मपरायणः।

   धर्मज्ञः सत्यसंधश्च शीलवाननसूयकः॥

2) ससन्दर्भव्याख्यात। - "महाराजशिववीरस्य आज्ञां वयं शिरसा वहामः" ।

3) वाल्मीकिमहर्षेः परिचयं संक्षेपेन लिखत।

4) अधोलिखित पदानां लिङ्गविभक्तिवचनानि प्रत्यभिजानीत।

   अ) कविना   आ) गवि   इ) पितः   ई) मतिम्   उ) देवस्य

5) सन्धिपदानि विघटयत।

   अ) कपीशः   आ) गायकः   इ) सूर्योदयः   ई) तथैव   उ) तदपि

6) ससन्दर्भव्याख्यात। - " अकालसन्ध्यामिव धातुमत्ताम् " ।

7) श्लोकस्य अनुवादं कुरुत।

   एकं प्रसूयते माता द्वितीयं वाक्प्रसूयते ।

   वाग्जातमधिकं प्रोचुः सोदर्यादपि बन्धुवत्॥

8) श्लोकपूरणं कुरुत।

   गुरुशुश्रूषया ....नोपलभ्यते॥

SECTION - B   भागः- आ   4x10=40

चतुर्णां प्रश्नानां समाधानानि लिखत। (Answer any FOUR from the following.)

9. द्वयोः श्लोकयोः प्रतिपदार्थं तात्पर्यं च लिखत।

1. अ) अस्त्युत्तरस्याः दिशि देवतात्मा हिमालयो नाम नगाधिराजः।
पूर्वापरौ तोयनिधी वगाह्य स्थितः पृथिव्या इव मानदण्डः॥
आ) अनन्तरत्नप्रभवस्य यस्य हिमं न सौभाग्यविलोपि जातम्।
एको हि दोषो गुणसन्निपाते निमज्जतीन्दोः किरणेष्विवाङ्कः॥

(अथवा)

2. अ) कपोलकण्डूः करिभिर्विनेतुं विघट्टितानां सरलद्रुमाणाम्।
यत्र स्त्रुतक्षीरतया प्रसूतः सानूनि गन्धः सुरभीकरोति॥
आ) दिवाकराद्रक्षति यो गुहासु लीनं दिवाभीतमिवान्धकारम्।
क्षुद्रेऽपि नूनं शरणं प्रपन्ने ममत्वमुच्चैः शिरसां सतीव॥

10. (अ) 'धर्मबद्धो दौवारिकः' - इति पाठ्यांशे दौवारिकस्य स्वामिभक्तिम् उल्लिखत।

(अथवा)

(आ) 'कृतघ्ने नास्ति निष्कृतिः' - पाठ्यांशस्य सारांश लिखत।

11. द्वौ शब्दौ सर्वासु विभक्तिरूपाणि लिखत।

अ) कवि   आ) पिता   इ) नदी   ई) फल

(अथवा)

आ) "एष धर्मः सनातनः" इति पाठ्यांशस्य सारांश लिखत।

12. अ) अधोनिर्दिष्टेषु पञ्चपदानां सन्धिनामनिर्देशपूर्वकं विघटयत।

1. रामानुजः   2. पावकः   3. नवोदयः   4. दिव्यौषधम्   5. अन्वेति
6. हरिश्शेते   7. रामष्षष्ठः   8. पन्नगः

(अथवा)

आ) अधोनिर्दिष्टेषु पञ्चानां सन्धिनामनिर्देशपूर्वकं सन्धत्त।

1. महा + अहिः   2. हरे + ए   3. महा + औषधिः   4. षट् + नगर्यः
5. सुप् + अन्तः   6. गुरोः + आज्ञा   7. वाक् + ईशः   8. गौरी + इयम्

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

Waddepally, Hanumakonda

B.Sc. (I Semester) Examination- Feb/Mar-2022

STATISTICS

Paper I

(Descriptive Statistics and Probability)

Time : 3 Hours]   [Max. Marks: 70

Section A – (Marks: 5 × 6 = 30)

Answer any *five* of the following. Each question carries *six* marks.

1. Explain primary and secondary data.

2. Calculate mean, median, mode for the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	52	54	68	45	36	25

3. Define mutually exclusive, independent and dependent events with an example.

4. Two dice are thrown simultaneously, find the probability of getting:

   (a) Sum of 9

   (b) The sum less than 8

   (c) The sum neither 6 nor 7

5. Define probability mass function and probability density function give one example for each.

6. A random variable X has the following probability distribution:

Values of X, x	0	1	2	3	4	5	6	7	8
P(x)	m	3m	5m	7m	9m	11m	13m	15m	17m

   Determine the value of m.

   Find $P(X < 3)$, $P(X \geq 3)$, $P(0 < X < 5)$.

7. Define distribution function of random variable state and prove any two properties of it.

8. A random variable X has the following probability function:

X:	-3	6	9
P(x):	1/6	1/2	1/3

   Find mean and variance.

Section A – (Marks: 4 × 10 = 40)

Answer all the questions. Each question carries *ten* marks.

9. (a) Define central and non central moments and establish the relationship between central and non central moments.

(Or)

(b) Explain skewness and kurtosis also give measures of skewness.

10. (a) What is Conditional Probability? State and prove Baye's theorem of probability.

(Or)

(b) State and prove Boole's inequality.

11. (a) Define Distribution function of a random variable and prove its properties.

(Or)

(b) Let X be a continuous random variable with p.d.f.:

$$f(x) = \begin{cases} ax, & 0 \leq x \leq 1 \\ a, & 1 \leq x \leq 2 \\ -ax + 3a, & 2 \leq x \leq 3 \\ 0, & elsewhere \end{cases}$$

    (i)   Determine the constant a.

    (ii)   Compute $P(X \leq 1.5)$.

12. (a) Explain moment generating function. How to obtain moments using moment generating function.

(Or)

(b) State and prove Chebychev's in equality.

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పింగళి ప్రభుత్వ మహిళా కళాశాల (స్వయం ప్రతిపత్తి)

వడ్డేపల్లి , హనమకొండ.

బి.ఎ./బికాం./ బియస్సీ(సి.బి.సి.యస్)

తెలుగు

ప్రథమ సెమిస్టర్

సమయం 3 గం.   మార్కులు :70M

I ఈ క్రింది వానిలో ఏవైనా ఆరు ప్రశ్నలకు సమాధానాలు వ్రాయండి.   6×5=30M

1 పాల్కురికి సోమనాథుడు కవిపరిచయం

2 ఓరుగల్లు కోట

3 బహువ్రీహి, ద్విగు సమాసాలు

4 హరిహర , మురారి దేవులు

5 శ్రీ శ్రీ కవిపరిచయం

6 కడుపేడియో నీరు గలిసిన వనియొ.సందర్భ సహిత వ్యాఖ్య

7 కవియును రాజిద్దరాత్మ గౌరవ కాములే. సందర్భ సహిత వ్యాఖ్య

8 (అ)ధనమ, ఉపాధ్యాయుడు,కుమారుడు శబ్దాలకు పర్యాయపదాలు

  (ఆ) సిరి,అంతరము శబ్దాలకు నానార్థాలు.

II ఈ క్రింది వానిలో ఏవేని నాలుగు ప్రశ్నలకు సమాధానాలు వ్రాయండి.   4×10=40M

1. విమల యశోనిధీ పురుషప్రవృత్త మెరుంగుచునుండు జూవె వే
దములునను బంచ భూతములు ధర్మవు సంధ్యలు నంతరాత్మయైన్
యముడును జంద్రసూర్యులు నహంతును రాత్రియు నమ్మహపదా
ర్థము లివియుండగా నరుడు దక్కొన నేర్చనే తన్ను మ్రుచ్చిలన్.

   A) పై పద్యానికి ప్రతి పదార్థ తాత్పర్యం వ్రాయండి

    లేదా

   B) సంవరణుడి తపస్సు గూర్చి వ్రాయుము.

2 A) కాసులు పార్యంశం ద్వారా గురజాడ ప్రేమ తత్వం వివరింపుము.

    లేదా

   B) గంగిరెద్దుల విన్యాసాన్ని వివరింపుము.

3 A) రుద్రమదేవి మహాదేవుని ఓడించిన విధమును తెలపండి.

    లేదా

   B) మదనమంజరి పాత్ర గూర్చి వ్రాయండి.

4 A) ఏవైనా నాలుగు సంధులు గూర్చి సోదహరణంగా వ్రాయండి

    లేదా

  B) తెలుగు వాక్యం గూర్చి వ్రాయండి.

PINGLE GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

Waddepally, Dist: Hanumakonda-TS

B.SC. (CBCS) Examinations -2021-22
Paper-I: SEMESTER-I
ZOOLOGY
ANIMAL DIVERSITY-INVERTEBRATES

Time: 3hrs   Max.Marks:70

Section-I (Marks:5X6=30)
Answer any FIVE Questions of the following
Draw labeled diagrams wherever necessary

1. Write a note General characters of protozoa.

2. Spicules in sponges

3. Corals formation in cnideria.

4. Life cycle of wuchereria brancrofti.

5. Write a short note on metamerism in Annelids

6. Insect metamorphosis.

7. Peral formation in molusca

8. Explain: Autotomy and Regeneration in Echinoderms.

Section-II (Marks:4X10=40)
Answer any FOUR Questions of the following
Draw labeled diagrams wherever necessary

1.a). Write a essay on Life cycle of Elphidium.

   (or)

   b). Canal system in sponges.

2.(a). Write a essay on Polymorphism in cnideria.

   (or)

   b). General characters and classification of Platyhelmenthes. (up to orders)

3.(a) Reproductive system in leech.

   (or)

   (b). Structure and affinities of Peripatus.

4.(a). Torsion and Detorsion in Grastropods.

   (or)

   b). Write a essay on Evolutionary significance of Echinoderm larvae.