A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),KAKINADA

(Affiliated to AdikaviNannaya University, Rajamahendravaram)

II YEAR UG SEM-III END EXAMINATIONS –MARCH 2023

Subject : Personality Development and Leadership (PDL)

Paper Code:PDL20302L

Time : 2Hrs

Max. Marks : 50M

SECTION – A

Answer any FOUR questions. Each question carries 5 marks

4 x 5 = 20 Marks

ఏవైనా నాలుగు ప్రశ్నలకు సమాధానం ఇవ్వండి. ఒక్కో ప్రశ్నకు 5 మార్కులు ఉంటాయి

1. Leadership quality of J.R.D.Tata

.R.D.టాటా యొక్క నాయకత్వ లక్షణాలు

2. Characteristics of Leadership

నాయకత్వ లక్షణాలు

3. Explain the term "Psychodynamism"

"సైకోడైనమిజం" అనే పదాన్ని వివరించండి

4. What are Self Reporting Techniques

సెల్స్ రిపోర్టింగ్ టెక్నిక్స్ అంటే ఏమిటి

5. Meaning of Personality.

వ్యక్తిత్వం యొక్క అర్థం.

6. Expalin about leadership skills

నాయకత్వ నైపుణ్యాల గురించి వివరించండి

7. What is Self Cognitivism

సెల్స్ కాగ్నిటివిజం అంటే ఏమిటి

8. What is the importance of Leadership.

నాయకత్వ ప్రాముఖ్యత ఏమిటి.

SECTION – B

Answer ALL questions. Each question carries 10 marks   3 x 10 = 30 Marks

అన్ని ప్రశ్నలకు సమాధానం ఇవ్వండి. ఒక్కో ప్రశ్నకు 10 మార్కులు ఉంటాయి

9. What do you mean by Personality? Write about Social Cognitive Explanation.

వ్యక్తిత్వం అంటే ఏమిటి?కాగ్నిటివ్ వివరణ గురించి వ్రాయండి.

Or

10. Explaian in detail about the big five traits of Personality.

వ్యక్తిత్వం యొక్క ఐదు లక్షణాల గురించి వివరంగా వివరించండి.

11. What is the importance of personality Assessment? Explain projective and self reporting techniques.

వ్యక్తిత్వ మదింపు యొక్క ప్రాముఖ్యత ఏమిటి? ప్రాజెక్టివ్ మరియు సెల్ఫ్ రిపోర్టింగ్ పద్ధతులను

వివరించండి.

Or

12. Explain different ways to improve personality skills.

వ్యక్తిత్వ నైపుణ్యాలను మెరుగుపరచడానికి వివిధ మార్గాలను వివరించండి.

13 Describe who can be a good leader with the examples of leadership qualities of Abharam Lincoln and   Prakasam Pantulu.

అభారమ్ లింకన్ మరియు ప్రకాశం పంతులు యొక్క నాయకత్వ లక్షణాల
ఉదాహరణలతో ఎవరు మంచి నాయకుడు కాగలరో వివరించండి.

Or

14. Explain Leadership skills and types of leaders.

నాయకత్వ నైపుణ్యాలు మరియు నాయకుల రకాలను వివరించండి.

Subject : General Telugu   Paper Code:TEL20301

Time : 3Hrs   Max. Marks : 60M

సమయం - 3 గంటలు   అత్యధిక మార్కులు - 60

సెక్షన్ - ఎ

1. ఈ క్రింది పద్యములలో <u>ఒక దానికి</u> సందర్భసహిత ప్రతిపదార్థ తాత్పర్యం

వ్రాయుము.   1x8=8మా॥

   అ)   వార్తయంద జగము వర్తిల్లుచున్నది

         యదియులేని నాడ యఖిల జనులు

         నందకారమగ్నులగుదురు గావున

         వార్త నిర్వహింప వలయు(బతికి

                    (లేదా)

   ఆ)   సంగరరంగమందు నతి శౌర్యమునన్ రఘురామతోడమా

         తంగతురంగ సద్ఘటవ తాంగబలంబు(గూడి నీవు పో

         రంగను నోపకిప్పుడు విరాధఖరాదుల పాటు(జూచియున్

         దొంగిలినన్ను (దెచ్చితివి తుచ్ఛపు (బల్కులుపల్క (బాడియే

2. ఈ క్రింది పద్యములో ఒకదానికి పాదభంగ దోషము లేకుండా పూరింపుము. 1x3=3మా॥
   అ) నిటలతట ప్రచండ .... తూల కణాళి పోలెన్నై
                    (లేదా)
   ఆ) ధరణిపు జక్క గట్టెదరు దక్కి .... నీతి కొల్చునన్

3. ఈ క్రింది వానిలో రెండింటికి సందర్భసహిత వ్యాఖ్యలు వ్రాయుము.   2x3=6మా॥

   ౠ. ~~ద్రత్తవంటను ఉంటయింట్ల్ల(వుట్టది~~

   క) వార్తయందు జగము వర్తిల్లుచున్నది

సెక్షన్ - బి

6. ఈ క్రింది పదములను రెండింటికి విడదీసి సంధిపేరు వ్రాయుము.   2x1=2 మా॥

    1. ఇట్లనియె   2. నరేంద్ర

    3. ధరణీశ   4. కట్టెదుట

7. ఈ క్రింది సమాస పదములకు రెండింటికి విగ్రహ వాక్యమును సమాసనామమును
వ్రాయుము.   2x1=2 మా॥

    1. సహస్రాక్షుడు   2. తనయిల్లు

    3. అసాధ్యము   4. కార్యభారము

8. ఈ క్రింది వానిలో ఒక దానికి అలంకారమును సోదాహరణముగా లక్ష్యలక్షణ
సమన్వయము చేయుము.   1x3=3 మా॥

    1. అంత్యానుప్రాస   2. ఉపమాలంకారం

9. ఈ క్రింది వానిలో ఒకదానికి ఛందస్సు గూర్చి సోదాహరణముగా గణవిభజన
చేసియతి ప్రాసలను గుర్తించుము.   1x3=3 మా॥

    1. ఉత్పలమాల   2. కందము

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I. YEAR UG SEM-I   END EXAMINATIONS –BACKLOG - MARCH 2023

Subject : General Telugu

Time : 3Hrs

Paper Code:TEL20301

Max. Marks : 75M

సెక్షన్ – ఎ

I. ఈ క్రింది పద్యాలలో ఒకదానికి ప్రతిపదార్థ తాత్పర్యాన్ని రాయండి.   1x8=8 మా

(అ) కడుజనువాడునై పురుషకారియు దక్షుడునైన మంత్రి పెం

పడంగ రాజపుత్రల మహోధనవంతులఁ జేసి వారితో

నొడఁబడి పక్ష మేర్పడగ నుండఁదుగా, ధనమెట్టి వారికిం

గడుకొని చేయకుందునె జగన్నుత! గర్వము దుర్విమోహమన్

(లేదా)

(ఆ) రాజగృహంబుకంటే నభిరామముగా నిలు గట్ట గూడ దే

యోజ నృపాలుఁ డాకృతికి నొ ప్పుగువేషము లాచరించు నే

యోజ విహారముల్ సలుప నుల్లమునం గదువేడ్క సేయు నే

యోజ విదగ్ధఁ దై పలుకు నొద్దలకుం దగ దట్లు చేయఁగన్

II. ఈ క్రింది పద్యాలలో ఒక దానికి పాదభంగం లేకుండా పూరించండి.   1x3=3 మా

(అ) హరి మర్ధింతుమొ? .... రౌద్రాకృతిన్ (లేదా)

(ఆ) ధరణిపు జక్క గట్టెదరు దక్కి........... నీతి కొల్పునన్

III. ఈ క్రింది వానిలో నాల్గింటికి సందర్భ వ్యాఖ్యలు రాయండి.   4x3=12 మా

1. రుణములిత్తే యుత్తమ బుద్ధిన్

2. తనువు లస్థిరములు ధనములు కల్ల

3. ఎలుక మీది కోపమున నిల్లేర్చునట్లు

4. పారిపోనిచ్చిన బ్రదుకుదుమయ్య

5. పురుషార్థంబునకు హాని పుట్టక యున్నే

6. రాముడేరీతి లంకకు రాగలండు

IV. ఈ క్రింది వానిలో నాల్గింటికి సంగ్రహంగా సమాధానాలు రాయండి.   4x3=12 మా

1. రాజులు చేయకూడని దోషాలు తెల్పండి.

2. దక్షుని యజ్ఞవాటిక భీతావహమైన వేళ, ఇంద్ర కుబేరుల స్థితిని తెల్పండి.

3. ధౌమ్యుడు పాండవులకు ధర్మోపదేశం ఎందుకు చేశాడు?

4. నలగామరాజు ఎందుకు కలత చెందాడు?

5. శ్రీనాథుని రచనలేవి?

6. నారదుడు చెప్పిన పద్నాలుగు రకాల రాజ లక్షణాలను తెల్పండి.

V. ఈ క్రింది వ్యాసరూప ప్రశ్నల్లో మూడింటికి సమాధానాలు రాయండి.　　　　　1x8=8 మా

1. (అ) నారదుడు ధర్మరాజుకు చెప్పిన రాజనీతిని తెల్పండి.

　　　　　(లేదా)

　(ఆ) దక్షయజ్ఞం పాఠ్యభాగ సారాంశాన్ని తెల్పండి.

2. (అ) ధౌమ్యుడు పాండవులకు చేసిన ధర్మోపదేశాన్ని తెల్పండి.　　　　　1x8=8 మా

　　　　　(లేదా)

　(ఆ) 'పల్నాటి బెబ్బులి' కథా సారాంశాన్ని తెల్పండి.

3. (అ) 'సీతా రావణ సంవాదం' పాఠ్యభాగం ఆధారంగా సీత రావణునితో పలికిన అంశాలు తెల్పండి.　　　1x8=8 మా

　　　　　(లేదా)

　(ఆ) పల్నాటి యుద్ధంలో బాలచంద్రుని యుద్ధ కౌశలాన్ని వర్ణించండి.

సెక్షన్ – బి

VI. ఈ క్రింది పదాల్లో నాల్గింటిని విడదీసి సంధి పేరు రాయండి.　　　　　4x1=4 మా

　(1) రాజాన్వయ　　(2) ఎచ్చోట　　(3) దేవోత్తముడు　　(4) ఇట్లనిరి　　(5) కట్టెదుట　　(6) కాలాగ్ని

VII. ఈ క్రింది పదాల్లో నాల్గింటికి విగ్రహవాక్యం రాసి, సమాసాల పేర్లు తెల్పండి.　　　　4x1=4 మా

　(1) త్రిలోకములు　　(2) సహస్రాక్షుడు　　(3) కూరగాయలు　　(4) అనేకము　　(5) తనయిల్లు　　(6) రాజగృహము

VIII. ఈ క్రింది వానిలో ఒక అలంకారానికి లక్ష్యలక్షణ సమన్వయం చేయండి.　　　　1x4=4 మా

　　(1)　　వృత్యనుప్రాస　　　　(2)　　ఉత్ప్రేక్షాలంకారం

IX. ఈ క్రింది వానిలో ఒకదానికి లక్షణాలు తెలిపి ఉదాహరణతో సమన్వయం చేయండి.　　　1x4=4 మా

　　(1)　　చంపకమాల　　　　(2)　　కందం

　　　　　★★★

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Basic Principles of Aquaculture

Time : 3Hrs

Paper Code: AQ201308

Max. Marks : 60M

SECTION – A

I. Answer any five of the following. Draw a labelled diagram whenever necessary   5 x 4 =20M

1) Scope of Aquaculture.
2) Cage culture.
3) Carbon cycle in culture pond.
4) Nursery ponds.
5) Stocking ponds.
6) Ideal fish pond-site selection.
7) Application in culture ponds.
8) Control of predators.

SECTION-B

II. Answer all questions. Draw a labelled diagrams wherever necessary   5 x 8 = 40M

9) (a) Write an essay on fresh water aquaculture.

(or)

(b) Explain the polyculture and mono sex culture.

10) (a) Describe the importance of plankton and benthos in culture ponds.

(or)

(b) What is productivity? To estimation and improvement of productivity.

11) (a) Explain the spring, rain water, flood water ponds.

(or)

(b) Write the essay on hatchery design management.

12) (a) Write about layout and arrangements of ponds in a fish farm.

(or)

(b) Write an essay on structure and components of barrage pond.

13) (a) Write physio-chemical conditions of soil and water optimum for culture.

(or)

(b) Explain the role of nutrients.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Fundamentals of Accounting   Paper Code: FA201201
Time : 3Hrs   Max. Marks : 60 M

Section –A

Answer FIVE questions   [5 × 8 = 40 marks]

1. Explain the accounting concepts and accounting conventions. (OR)

2. Difference between book keeping and accounting.

3. Explain various types of subsidiary books. (OR)

4. Prepare three column cash book from the following.

2021		₹
Jan		
1	Cash in hand	2,500
1	Cash at bank	10,000
3	Paid into bank	1,000
5	Bought furniture and issued cheque	2,000.
8	Purchased goods for cash	500
12	Received from Madhu	980
	Discount allowed	20
14	Cash sales	4,000
16	Paid to Raju by cheque	1,450
	Discount	50
19	Paid into bank	400
23	Withdrew from Bank for private expenses	600
24	Received chequefrom Ravi	1,430
	Allowed him discount	20
26	Deposited Ravi's cheque into bank	
28	Withdrew cash from Bank for office use	2,000
30	Paid rent by cheque	800

5. Explain the various methods of preparing trial balance (OR)

6. What is an error and explain the types of errors.

7. Causes for difference of balance between cash book and pass book? (OR)

8. Prepare a bank reconciliation statement from the following particulars.

   a) Balance as per pass book Rs. 25,000

   b) Cheques issued but not presented for payment Rs. 12,000

   c) Cheques deposited but not collected 2,500

   d) Interest credited in pass book only Rs. 150

   e) Wrong credit in pass book Rs. 12,600

   f) Bank charges debited in pass book only Rs. 120

9. Write about capital expenditures and revenue expenditures (OR)

10. From the following Trail Balance and adjustments prepare Trading, Profit & Loss Account and Balance Sheet 31-12-2021.

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Purchases	3,00,000	Sales	4,75,000
Machinery	90,000	Capital	90,000
Sales returns	4,000	Purchases returns	5,000
Debtors	65,000	Creditors	70,000
Cash in hand	30,000	Commission received	2,000
Stock (1-1-2020)	50,000		
Wages	40,000		
Salaries	45,000		
Rent and taxes	3,900		
Furniture	8,000		
Fright	6,100		
	6, 42,000		**6, 42,000**

Adjustments:

   a. Closing stock Rs. 52,000

   b. Outstanding salaries Rs. 6,000

   c. Depreciate on Machinery @ 5% and Furniture @ 10 %

   d. Provide interest on capital @ 10 %

Section-B

Answer Any **Five** of the Following Questions. $[5 \times 4 = 20 \text{ marks}]$

11. What are the objectives of accounting?

12. Accounting cycle.

13. Petty cash book.

14. Advantages of subsidiary books.

15. What is Suspense account?

16. Importance of Bank Reconciliation Statement.

17. Trade Discount and Cash Discount.

18. Trading Account.

A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),KAKINADA

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Business Organization and Management** Paper Code: BOM201202

Time : 3Hrs Max. Marks : 75 M

Section –A

Answer FIVE questions (5x10=50Marks)

1. Define Business? Explain the features of Business
    OR
2. Discuss the factors that influence the choice of suitable form of business organization.
3. Explain the merits and demerits of Partnership business.
    OR
4. What is a joint stock company explain its features.
5. What are the various stages in incorporation of acompany?
    OR
6. What is articles of association and also explain its contents.
7. Explain Fayol's 14 Principles of Management.
    OR
8. Explain the difference between administration and management.
9. Explain the different functions of Management.
    OR
10. Explain the Principles of Organization.

Section-B

Answer Any **Five** of the Following Questions. (5x5= 25 Marks)

11. Functions of Business.
12. Explain Aids to Trade
13. Features of Sole Proprietorship
14. Define Multinational Corporations (MNCs). Explain its features.
15. Certificate of Commencement of Business
16. Levels of Management
17. Esprit de corps
18. Line and Staff Conflict

1

SCHEME OF VALUATION

BUSINESS ORGANIZATION AND MANAGEMENT

Time: 3 hours   **Max. Marks: 75Marks**

Section –A

Answer FIVE questions   (5x10=50Marks)

1. Define Business?   **(2 MARKS)**

   Explain the features of Business   **(8 MARKS)**

2. Discuss the factors that influence the choice of suitable form of business organization.**(10 MARKS)**

3. Explain the merits and demerits of Partnership business.   **(10 MARKS)**

4. What is a joint stock company explain its features.   **(10 MARKS)**

5. What are the various stages in incorporation of acompany?**(10 MARKS)**

6. What is articles of association and also explain its contents.**(10 MARKS)**

7. Explain Fayol's 14 Principles of Management.   **(10 MARKS)**

8. Explain the difference between administration and management.**(10 MARKS)**

9. Explain the different functions of Management.   **(10 MARKS)**

10. Explain the Principles of Organization.   **(10 MARKS)**

Section-B

Answer Any **Five** of the Following Questions.   (5x5= 25 Marks)

11. Functions of Business.   **(5 MARKS)**

12. Explain Aids to Trade.   **(5 MARKS)**

13. Features of Sole Proprietorship.   **(5 MARKS)**

14. Define Multinational Corporations (MNCs).   **(2 MARKS)**

    Explain its features.   **(3 MARKS)**

15. Certificate of Commencement of Business.   **(5 MARKS)**

16. Levels of Management.   **(5 MARKS)**

17. Esprit de corps.   **(5 MARKS)**

18. Line and Staff Conflict.   **(5 MARKS)**

1

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Plant Nursery

Paper Code: PN20102

Time : 2Hrs

Max. Marks : 50M

SECTION A

Answer any FOUR questions. Each answer carries 5 marks   4x5M-20M

1. Write short notes on selection of site for a Nursery.
2. What are the advantages and disadvantages of sexual plant propagation?
3. Write short notes on seed propagation Techniques?
4. What are the factors Effecting seed germination? 5. Write short notes on seed treatment?
6. Write short notes on transplanting of seedlings?
7. Write short notes on Applications of Mulching?
8. Explain the role of nutrients in nursery management?

SECTION-B

Answer any THREE questions. Each answer carries 10 marks   3x 10M-30M

9. Write an essay on layout of model nursery?

OR

10. Describe basic facilities for nursery?

11. Explain Various methods of vegetable propagation by cutting?

OR

12 Define Nursery Bed. Write about types of nursery beds.

13. Write an essay on various seasonal activities in nursery?

OR

14. Write about in come and maintenance of records in nursery?

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Fundamentals of Accounting

Time : 3Hrs

Paper Code: FA201201

Max. Marks : 75M

Section –A

Answer FIVE questions   (5x10=50Marks)

1. Explain the accounting concepts and accounting conventions. (OR)

2. Difference between book keeping and accounting.

3. Explain various types of subsidiary books.   (OR)

4. Prepare three column cash book from the following.

2021		₹
Jan		
1	Cash in hand	2,500
1	Cash at bank	10,000
3	Paid into bank	1,000
5	Bought furniture and issued cheque	2,000
8	Purchased goods for cash	500
12	Received from Madhu	980
	Discount allowed	20
14	Cash sales	4,000
16	Paid to Raju by cheque	1,450
	Discount	50
19	Paid into bank	400
23	Withdrew from Bank for private expenses	600
24	Received chequefrom Ravi	1,430
	Allowed him discount	20
26	Deposited Ravi's cheque into bank	
28	Withdrew cash from Bank for office use	2,000
30	Paid rent by cheque	800

5. Explain the various methods of preparing trial balance (OR)

6. What is an error and explain the types of errors.

7. Causes for difference of balance between cash book and pass book? (OR)

8. Prepare a bank reconciliation statement from the following particulars.

   a) Balance as per pass book Rs. 25,000

   b) Cheques issued but not presented for payment Rs. 12,000

   c) Cheques deposited but not collected 2,500

   d) Interest credited in pass book only Rs. 150

   e) Wrong credit in pass book Rs. 12,600

   f) Bank charges debited in pass book only Rs. 120

9. Write about capital expenditures and revenue expenditures   (OR)

10. From the following Trail Balance and adjustments prepare Trading, Profit & Loss Account and Balance Sheet 31-12-2021.

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Purchases	3,00,000	Sales	4,75,000
Machinery	90,000	Capital	90,000
Sales returns	4,000	Purchases returns	5,000
Debtors	65,000	Creditors	70,000
Cash in hand	30,000	Commission received	2,000
Stock (1-1-2020)	50,000		
Wages	40,000		
Salaries	45,000		
Rent and taxes	3,900		
Furniture	8,000		
Fright	6,100		
	6, 42,000		**6, 42,000**

Adjustments:

   a. Closing stock Rs. 52,000

   b. Outstanding salaries Rs. 6,000

   c. Depreciate on Machinery @ 5% and Furniture @ 10 %

   d. Provide interest on capital @ 10 %

2

Section-B

Answer Any **Five** of the Following Questions.   (5x5= 25 Marks)

11. What are the objectives of accounting?

12. Accounting cycle.

13. Petty cash book.

14. Advantages of subsidiary books.

15. What is Suspense account?

16. Importance of Bank Reconciliation Statement.

17. Trade Discount and Cash Discount.

18. Trading Account.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Tourism Guidance   Paper Code: TG20101

Time : 2Hrs   Max. Marks : 50M

SECTION –A

I.Answer any FOUR questions. Each question carries 5 marks.   4×5 =20 Marks

1.Tourism circuits

2.Explain the meaning of Tourism Guidance

3.Leadership and Social skills

4.Communication skills

5.Hygiene and dressing

6.Adventure Tourism

7.Route chart

8.Code of conduct

SECTION – B

II.Answer THREE questions. Each question carries 10 marks   3×10 = 30 Marks

9.Explain the different types of Tourism
                    (or)
10.Explain the duties and responsibilities of a mentor

11.Explain the personal and official arrangements of the Tourism
                    (or)
12. Write about Tour Guide License Process

13.Explain about Passport/VISA requirements for Tourism
                    (or)
14.Explain knowledge of local security and route chart

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Subject : Insurance Promotion | Paper Code: IP20104

Time : 2Hrs | Max. Marks : 50M

Time: 3 hrs | Max Marks: 50

Answer any ALL the questions. | **3×10=30M**

1. Explain the importance of Insurance?

(OR)

2. Briefly discuss the role of IRDA in Insurance promotions and regulations.

3. What are the various types of Life Insurance in India?

(OR)

4. Explain various Health Insurance Plans?

5. Write about the significance of General Insurance? Explain any two General Insurance products.

(OR)

6. Explain the procedure in handling & dealing with the customers and enhancing the customer Loyalty.

PART-B

Answer any FOUR questions. | **4×5-20M**

7. Functions of Insurance Company.

8. Functions of IRDA

9. Fire Insurance

10. Health Insurance

12. Benefits of Health Insurance

11. Types of Marine Insurance Policies.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **General Psychology**

Paper Code: **HGP201302**

Time : 3Hrs

Max. Marks : 60 M

Part- A

Answer any five of the following, each question carries 4 Marks   **5x4=20M**

1. Define Psychology.What is the scope of psychology.
2. Write the different types of attention
3. Write the principles of perceptual organization
4. Discuss any four factors affecting personality.
5. Explain the theory of Operant Conditioning
6. Define intelligent quotient. Classify children based on intelligence.
7. *Explain Traits Perspective Sheldon theory.*
8. *Write the methods of memorizing memory*

Part-B

Answer five questions each question carries 8 marks.   **5X8=40Marks**

9. a. Explain Cross sectional and Longitudinal methods of studying human behaviour.

Or

   b. Write any three branches of applied psychology

10. a. What are the types and causes of forgetting.

Or

   b. Define attention and discuss the determinants of attention

11. a. Define Personality. Write the various test involved in assessing personality test.

Or

   b. Explain Big Five Factor Theories and Freuds Freud's psycho- analytical theory.

12. a. Describe the steps in learning process

Or

   b. Explain Abraham Maslow's theory of motivation

13. a. Differentiate between Cognition and Meta Cognition. Write the ways of assessing intelligence

Or

   b. Explain Gardner's multiple intelligence theory.

Semester-1
HSC-102-GENERAL PSYCHOLOGY-Set-2
scheme

Time:3hrs.   Marks:60

Part- A

Answer any five of the following, each question carries 4 Marks   5x4=20M

1. Define Psychology. -1M
   What is the scope of psychology.-3M
2. Write the different types of attention-Voluntary and Involuntary-2+2
3. Write any two principles of perceptual organization-2+2
4. Discuss any four factors affecting personality-4M
5. Explain the theory of Operant Conditioning-4M
6. Define intelligent quotient.-1M
   Classify children based on intelligence.-3M
7. Explain Traits Perspective Sheldon theory.Ectoderm,endoderm,mesoderm-4M
8. Write four methods of memorizing memory-4M

Part-B

Answer five questions each question carries 8 marks.   5X8=40Marks

9. a. Explain Cross sectional and Longitudinal methods of studying human behaviour.-4+4
    Or
    b. Write any three branches of applied psychology-8M

10. a. types and causes of forgetting.-4+4
    Or
    b. Define attention -1M
    Discuss the determinants of attention-Objective and Subjective-3.5+3.5

11. a. Define Personality.-1M
    Write any two tests involved in assessing personality test.-3.5+3.5
    Or
    b. Explain Big Five Factor Theories-4M (OCEAN)
    Freud's psycho- analytical theory.-4M-Id, Ego, Superego

12. a. Describe the steps in learning process-8M
    Or
    b. Explain Abraham Maslow's theory of motivation-8M

13. a. Differentiate between Cognition and Meta Cognition.-2M
    Write the ways of assessing intelligence-Verbal and Non verbal-3+3
    Or
    b. Explain Gardner's multiple intelligence theory.-8M

Time : 3 Hours   Max. Marks : 75

Part – A

I) किन्हीं **पाँच (5)** प्रश्नों का उत्तर दीजिए?   5x5=25

१) आत्म निर्भरता से व्यक्ति और समाज को क्या लाभ होता है ?

२) पंडित हजारी प्रसाद द्विवेदी का परिचय दीजिए ।

३) भारतीय साहित्य में एकता के प्रमुख तत्वों पर प्रकाश डालिए ।

४) गंगी का चरित्र चित्रण अपने शब्दों में कीजिये।

५) पं.हरिशंकर परसाई का परिचय दीजिए।

६) गजाधर बाबू का चरित्र चित्रण कीजिए।

७) 'काल' की परिभाषा लिखकर मुख्य रूप से काल कितने प्रकार के हैं? उदाहरण सहित प्रस्तुत कीजिए ।

८) 'लिंग' की परिभाषा देकर किन्हीं ४ नियम उदाहरण सहित प्रस्तुत कीजिए।

PART – B

I) निम्नलिखित सभी प्रश्नों के उत्तर दीजिए।   5x10= 50

1) १) 'भारतीय साहित्य की एकता' का सारांश।

        (अथवा)

    २) ' आत्म निर्भरता' का सारांश ।

2) १) 'अंदर की पवित्रता' का सारांश।

        (अथवा)

    २) 'ठाकुर का कुआं' कहानी में सामाजिकता पर लेख लिखिए।

Subject : Differential Equations

Time : 3Hrs

Paper Code: **MAT201301**

Max. Marks : 75M

SECTION – A

Answer any Five questions. Each question carries 5 Marks.   5X5 = 25

1. Solve: $x \dfrac{dy}{dx} + 2y = x^2 \log(x)$.

2. Solve : $(x^2 + y^2)dx - 2xydy = 0$.

3. Solve: $x^2 p^2 + xyp = 6y^2$.

4. Solve: $(D^2 - 3D + 2)y = 3\sin 2(x)$

5. Solve: $(D^2 + 9)y = x^2$

6. Solve: $(D^2 - 4D + 3)y = e^x \cos 2(x)$

7. Solve: $(D^2 - 2D + 1)y = xe^{2x}$.

8. Solve: $(D^2 + 1)y = \sec(x)$

SECTION - B

Answer any Five questions. Each question carries 10 Marks.   5X10 = 50

9(a). Solve: $x\dfrac{dy}{dx} + y = y^2 \log(x)$.

(OR)

9(b). Solve: $y(x+y+1)dx + x(x+3y+2)dy = 0$

10(a). Solve: $y = 2xp - p^2$

(OR)

10(b). $y^2\log(y) = xyp + p^2$.

11(a). Solve: $(D^2 - 4D + 3)y = \sin 3x \cos 2x$.

(OR)

11(b). Solve: $(D^2 + 4)y = e^x + \sin(2x) + \cos(2x)$.

12(a). Solve: $(D^2 + 5D + 6)y = e^{-2x}\sin(2x)$.

(OR)

12(b). Solve: $(D^2 + 4)y = x \sin x$.

13(a). Solve: $(D^2 + 2D + 1)y = x e^x$ by the method of variation of parameters.

(OR)

13(b). Solve: $(x^2D^2 - 2xD + 4)y = x^4$

* * * * * *

SECTION- A - प्रथमोभागः   [5×5=25 MARKS]

Answer any FIVE of the following
Should be Answered in Sanskrit

1. श्लोकमेकं पूरयित्वा भावं च लिखत ।
   सत्यमेवानृशांसं ------- प्रतिष्ठतः ।

2. श्लोकमेकं पूरयित्वा भावं च लिखत ।
   धन्यानामुत्तमं ------- त्रुटिरूत्तमा ।

3. सविभक्तिकं सम्पूर्णशब्दरूपमेकं लिखत ।
   'भानु'

4. सविभक्तिकं सम्पूर्णशब्दरूपकमेकं लिखत ।
   'मति'

5. द्वयोः निर्दिष्ट लकारयोः सर्वाणि रूपाणि लिखत ।
   ① तिष्ठति   ② लभते

6. नामनिर्देशपूर्वकं सन्धिं संयोजयत ।
   ① इति + अत्र   ② वाक् + मयम् ③ महा + ईशः ④ तथा + राव
                                    ⑤ इति + आह्

7. निर्देशापूर्वकं सन्धिं विचारयत ।
   ① भविष्य   ② पावकः ③ गुरूपदेशः ④ अन्वेति ⑤ तद्रीका ।

8. पञ्चानां नामनिर्देशपूर्वकं विग्रहवाक्यानि लिखत ।
   ① ग्रामगतः
   ② अज्ञानम्
   ③ शीतोष्णम्
   ④ पञ्चवटी
   ⑤ पितरौ

PTO

SECTION - B द्वितीयो भागः [5×10 = 50 marks]

Answer any FIVE of the following

9. (A) 'आर्यपादुकाभिषेकः' पाठ्यभागानुसारिं सत्यस्य महिमानं विवृणुत।

    (or)

   (B) यक्षप्रश्ने षु वर्णितान् लौकिकधर्मान् वर्णयत।

10. (A) विवेकानन्द सूक्तयः इति पाठात् काः काः नीतयः ज्ञातव्याः।

    (or)

   (B) विवेकानन्द सूक्तयः इति पाठ्यभागस्य सारांशं लिखत।

11. (A) आत्युत्कटैः पापपुण्यैः इहैव फलमश्नुते इति पाठ्यभागस्य सारं लिखत।

    (or)

   (B) वीरवरस्य राज्यभक्तिं त्यागबुद्धिं विवृणुत।

12. द्वयोः ससन्दर्भं व्याख्यात।

   (A) धर्ममुच्चारं नयतिन्च सत्ये न्च प्रतितिष्ठति।

   (B) बहुमित्रकरः सुखं वसते यश्च धर्मरतः स गतिं लभते।

   (C) लोभं दिवा सुखी भवेत्।

   (D) बुद्धि मान् कृतसेवया।

13. द्वयोः ससन्दर्भं व्याख्यात।

   (A) गृहमागते अरावपि आतिथ्यं कार्यमुचितम्।

   (B) उदारचरितानां तु वसुधैव कुटुम्बकम्।

   (C) देव! यदि मया सेवकेन प्रयोजनमस्ति।

   (D) यत्राडपायः सम्भवति ततोपायोप्यस्ति।

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Electrical Appliances

Paper Code: EA20103

Time : 2Hrs

Max. Marks : 50M

Section – A

Answer any **THREE** questions. Each question carries 10 marks.   3 x 10 M = 30 Marks

1. Explain construction and working principle of transformer .

(OR)

Explain about capacitance, inductance, resistance.

2. What are the differences between single phase & three phase power supply.

(OR)

Explain about Uniterruptible Power Supply (UPS) and give advantages.

3. Explain about electric water heater.

(OR)

Explain the working parts and servicing of microwave oven .

Section – B

Answer any **FOUR** questions. Each question carry 5 marks.   4 x 5 = 20 Marks

4. Write short note on multimeter
5. Define Voltmeter. Classify the types of voltmeters.
6. Explain earthing an necessity.
7. What is the need of electrical insulation .
8. Distinguish between inverter and UPS
9. Explain about Compact Fluroscent Lamp.

Time : 3Hrs Max.Marks:60

PART - A

Answer ALL the questions. 5×8=40M

1. a) Define Business? Explain the characteristics of Business?

(OR)

b) What are the factors that affecting the choice for the form of organization.

2. a) What are the Advantages & Disadvantages of partnership business?

(OR)

b) Explain the Advantages & Disadvantages of Joint stock companies?

3. a) What is memorandum of association? Explain it clauses?

(OR)

b) What are the documents required for incorporation of company?

4. a) Define management? Explain the levels of management.

(OR)

b) Explain Henry Fayol's principles of management?

5. a) Explain the functions of management?

(OR)

b) Define planning? Explain the characteristics of planning.

PART- B

Answer any FIVE questions.   5×4= 20M

6. Define Commerce? And its classification?

7. Explain the types of industries?

8. Write a short note on PSE's ?

9. Distinguish between public & private Ltd., companies?

10. Wrote about prospectus?

11. Management Vs Administration?

12. Management an Art – explain?

13. Line & Staff organization.

Subject : **Micro Economic Analysis**   Paper Code: **ECO201102**

Time : 3Hrs   Max. Marks : 60 M

Section-A

Answer any Five of the following: 5X4=20M

1. Concept of welfare
2. Samuelson's Growth definition
3. Cardinal utility and ordinal utility
4. Cobb-Douglas production function
5. Relationship between Average cost and marginal cost
6. Price discrimination
7. Selling costs
8. Scarcity rent

Section-B

Answer All the Questions   5X8= 40M

9. Explain nature and scope of Economics?

(or)

Distinguish between Micro economics and Macro economics?

10. Explain the Law of Demand with its exceptions?

(or)

Explain the consumers equilibrium with the help of Indifference curves?

11. Explain the law of variable proportions?

(or)

Explain the Law of returns to scale?

12. Explain price determination under perfect competition?

(or)

Explain price out put determination under monopoly competition?

13. Critically examine Marginal productivity, Theory of distribution?

(or)

Explain Dynamic Theory of profit?

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I YEAR UG SEM-I END EXAMINATIONS -MARCH 2023

Subject :General English

Time : 3Hrs

Paper Code:ENG20101

Max. Marks : 75M

SECTION –A

Answer any five of the following. Each question carries 5 marks.   (5x5=25M)

1. Write a note on effective listening.
2. What is accent in connected speech?
3. Fill in the blanks with suitable prepositions:
   a. The two children quarrelled _____themselves.
   b. John has been working in the office _____5 years.
   c. I prefer coffee_____tea.
   d. The teacher explained _____the students the value 09of time.
   e. It is important to make a distinction _____ prose and poetry.
4. Insert punctuation mark s in the given sentence wherever necessary
   she said to me I am not feeling well
5. Define positive attitude. List out the ways to develop positive attitude.
6. What are different types of listening? Elaborate.
7. Match the following sentences under column A with their correct question tags under column B

A	B
a. He is a teacher, ( )	1. hasn't she?
b. They are not paying attention, ( )	2. won't you?
c. Don't waste your time ( )	3. isn't he?
d. You will come tomorrow, ( )	4. are they?
e. She has passed the exam ( )	5. will you?

8. What is telephone etiquette?

SECTION-B

Answer all the questions. Each one carries TEN marks   (5x10M=50M)

9. a.Write a note on barriers of listening.

   (or)

b. Write the importance of listening. List out the difference between hearing and listening.

10.a. Write an essay on sounds of English.

(or)

b. Write a note on intonation. Illustrate with examples.

11. a Fill in the blanks with suitable verb forms.

1. Dolphin _____(live) in water.

2. She _____ (stay) in Delhi since 2010.

3. The train _____(leave) when we reached the station yesterday.

4. Listen! somebody_____(knock)the door.

5. Honey _____(be) sweet.

b. Correct the following sentences wherever necessary.

1. My sister resides in USA.

2. Neither Rahul or his sister attended the program.

3. Calcutta is the most busiest city in India.

4. This bag is heavy than mine.

5. Seetha is superior than Rita.

(or)

12. Transform the sentences as directed.

a. Rohit broke the door. (change into passive voice)

b. Tennis is being played by Sasi. (change into active voice)

c. Sreeja bought a new car. (change into passive voice)

d. "Helen writes very well" I said her friend. (change into indirect speech)

e. She takes books from the library. (change into passive voice)

f. My mother was cleaning the floor. (change into passive voice)

g. Srilatha said, "I do not like to go there". (change into indirect speech)

h. No other man in the town is as rich as him. (change into comparative degree)

i. Bangalore is one of the richest cities in India. (change into positive degree)

j. Water is not as light as air. (change into comparative degree)

13. a. What are the features of a good paragraph? Mention different types of paragraph.

(or)

b. Correct the spellings of the following words.

1) agianst 2) existance 3)assasign   4) beleive   5) reciept

6) committee 7) athlet 8)dezire   9) hostail   10) exageration

14. a. What is SWOT/SWOC. Explain.

(or)

b. Write a note on the importance of emotional intelligence.

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I YEAR UG SEM-I END EXAMINATIONS -MARCH 2023

Subject :General English   Paper Code:ENG20101

Time : 3Hrs   Max. Marks : 60M

SECTION -A

1. Answer any FIVE questions. Each carries 4 marks   5×4=20M
    1. What are the barriers to effective listening?
    2. Write a note on intonation.
    3. Fill in the blanks write suitable Articles.
        a. _____ Sun is _____ nearest star to our earth.
        b. _____ friend in need is _____ friend indeed
    4. Use Punctuation marks in the given sentence wherever necessary.
        are you in our group he asked
    5. What is SWOC?
    6. What are Interpersonal Skills?
    7. Match the following sentence, under column 'A' with their correct question tags under column 'B'.

A	B
1. I am right	a) didn't I ?
2. She has a car	b) doesn't she?
3. I called you	c) Aren't they?
4. They are students	d) Aren't I ?

    8. Write a note on Telephone etiquette.

SECTION - B

Answer All the questions. Each question carries 8 marks   5×8=40M

9. What is the importance of listening in our daily life and career?

(OR)

Explain the various strategies for effective listening

10. What is stress in English language? Write the rules of using stress?

(OR)

Explain the vowel sounds and consonant sounds with examples.

11. **A)** Fill in the blanks in the following sentences with the suitable from of the verb
   a) Don't disturb me. I _____ (Write/am writing) my notes.
   b) The players _____ (left /have left) the ground just now.
   c) When I _____ (am/was) 18 , I used to play hockey.
   d) I will help you, only when you _____ (are calling / call) me

   B) Correct the following sentences wherever necessary
   a) He is a M.L.A.
   b) Ravi, along with his friends are going to movie
   c) One of the student got the first rank
   d) Don't make noise.

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

   Change the following sentences as instructed.
   i)   They are playing games (change the voice)
   ii)   She has bought some apples (change the voice)
   iii)   She knows many languages (change the voice)
   iv)   He said to them, "Are you sending some letters"? (change into indirect speech)
   v)   They said to her, " we have sent you a message just now" (change into indirect speech)
   vi)   He said to her, "God is great" (change into indirect speech)
   vii)   He is the tallest boy in our class (change in to positive degree)
   viii)   Very few cities in India are as big as Mumbai (change into comparative degree)

12. Mention the qualities of a good paragraph? What are the different types of paragraphs?

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

   Choose the correct spelling in the following words.
   1. Menson, mennson, mention
   2. Qui , Queue, quie
   3. Occasion, ocassion, occassion
   4. Couragious, courageous, courigious.
   5. Receive, receeve, receive
   6. Measurement, meassurement, measureiment
   7. Collision, collison, colliseon
   8. Prision, prison, prisoin

13. What is emotional intelligence ? Write its importance in our life?

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

   What is positive thinking? Write its advantages.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : General Psychology

Time : 3Hrs

Paper Code: HGP201302

Max. Marks : 75 M

PART – A

Answer any 5 Questions. Each Question carries 10 marks.   5X10= 50 Marks

1. A) Write about Observation method and Case study method in detail.

   పరిశీలన పద్ధతి మరియు వ్యక్తి చరిత్ర పద్ధతి గురించి వివరించండి.

   Or

   B) Write about Experimental method and Longitudinal method of Psychology.

   ప్రయోగ పద్ధతి మరియు అనుదైర్ఘ్య పద్ధతి గురించి వివరించండి.

2. A) Write about perceptual organization and perceptual constancies in detail?

   గ్రహణ సంస్థ మరియు గ్రహణ స్థిరత్వం గురించి పూర్తిగా వివరించండి?

   Or

   B) Define Attention. Write about the types and determinants of attention.

   ఏకగ్రత అంటే ఏమిటి ? ఏకాగ్రత యొక్క రకాలు మరియు కారకాలు గురించి వ్రాయండి.

3. A) Define Personality. Write about assessment of personality using projective techniques?

   వ్యక్తిత్వం అంటే ఏమిటి ? వ్యక్తిత్వాన్ని ప్రాజెక్టివ్ పద్ధతుల ద్వారా ఎలా అంచనా వేస్తారు వివరించండి.

   Or

   B) Explain Erickson's theory of development in detail.

   ఎరిక్సన్ అభివృద్ధి సిద్ధాంతం గురించి వివరించండి.

4. A) What is learning? Discus about operant conditioning theory of learning ?

   అభ్యసనం అనగా ఏమిటి ? ఆపెరంట్ కండిషనింగ్ సిద్ధాంతం గురించి వివరించండి.

   Or

   B) Define motivation. Write about classification of motives.

   ప్రేరణ అంటే ఏమిటి ? ప్రేరణలను వర్గీకరించండి ?

5. A) Write the classification of Children based on Intelligence.

మేదస్సు ఆధారంగా పిల్లలను వర్గీకరించి వ్రాయండి.

<div align="center">Or</div>

B) Explain Gardner's multiple intelligence theory.

గార్డెనర్స్ బహుముఖ మేదస్సు సిద్ధాంతం గురించి వ్రాయండి.

<div align="center">PART-B</div>

Answer any 5 Questions. Each Question carries 5 marks.   **5X5= 25 Marks**

6. Write about branches of Psychology.

మనస్తత్వ శాస్త్రం యొక్క శాఖలు గురించి వివరించండి.

7. Explain Survey method.

సర్వే పద్ధతులు గురించి వివరించండి.

8. What are types of memory?

జ్ఞాపకశక్తి రకాలు ఏమిటి ?

9. Write about the factors affecting development of personality.

వ్యక్తిత్వ వికాసానికి దోహపడే కారకాలు గురించి వ్రాయండి ?

10. Discuss about type theory of Sheldon.

షెల్డన్ టైప్ సిద్ధాంతం గురించి వ్రాయండి.

11. Write about Abraham Maslow's theory of motivation.

అబ్రాహం మాస్లోవ్ ప్రేరణ సిద్ధాంతం గురించి వ్రాయండి ?

12. What are the steps in learning process ?

అభ్యసనం ప్రక్రియ యొక్క సోపానాలు గురించి వ్రాయండి.

13. Write about assessment of Intelligence

మేదస్సుని ఏ రకంగా అంచనా వేస్తారు వివరించండి.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Fundamentals of Horticulture and Soil Science**   Paper Code: **HTC201309**

Time : 3Hrs   Max. Marks : 75 M

SECTION –A

Answer ALL following Essay Questions   5 x 10 = 50

1. (a) Explain the importance of Horticulture in terms of environmental protection and human Resources Development? OR

    (b) Describe Fruit and Vegetable Zones of India and Andhra Pradesh?

2. (a) Explain Nutrition and Kitchen Garden? OR

    (b). Write an essay on Land Scapeing Methods?

3. (a) What about different systems of planting Orchards ?OR

    (b) Define the Training ? Write the principles and objectives of training and explain the merits and demerits?

4. (a) Describe the formation of soils and different types of soils.OR

    (b) Explain Soil pH and soil salinity?

5.(a) What about Humus and fractionation of organic matter?OR

    (b) Describe the beneficial and harmful role of soil microorganisms

SECTION –B

Answer any FIVE of the following   5 x 5 = 25

6. Division of Horticulture with suitable examples? 7. Define Pruning

8. Horticulture Export Scenario in India?   9. Soil Stability

10. Classification of Horticulture crops based on soil 11. Soil Colloids and Charges

12. Soil Organic Matter   13. Integrated Nutrient Management

Subject : **Inorganic & Physical Chemistry**
Time : 3Hrs

Paper Code: **CHE201303**
Max. Marks : 60 M

PART-A   4X5=20Marks

Answer any **FIVE** of the following questions. Each one carries **FOUR** marks

1. Explain any one method of preparation and the structure of Borazine.
2. Explain the structures of SO_2 and SO_3.
3. *Explain free electron theory of metals.*
4. Explain the catalytic properties of transition metals with examples.
5. Derive Bragg's Equation.
6. Write the applications of Liquid crystals.
7. Explain law of Corresponding states.
8. Write about common ion effect.

PART-B

Answer **ALL** the questions. Each carries **EIGHT** marks.   **5X8=40Marks**

9. (a). Write any two methods of preparation of Diborane. Explain the structure of Diborane.

(Or)

   (b) . (i) Define Inter halogen compounds.

   (ii) Explain the structures of AX_3 & AX_5 type inter halogen compounds.

10. (a). Explain the following properties of d –block elements.

   (i)Magnetic properties   (ii) Ability to form complexes

(Or)

   (b).Explain the Band theory of solids and explain Conductors, Semi-Conductors using Band theory.

11. (a) Explain the terms 1) Space lattice 2) Unit cell 3) Lattice Point

(Or)

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(b)Explain Stoichiometric and Non Stoichiometric defects in crystals.

12. (a) Derive Vander Waals equation of state for real gases.

(Or)

(b)Define Liquid crystals. Explain the classification of Liquid crystals with examples.

13. (a) Define Critical Solution Temperature. Explain CST of Phenol-Water System.

(Or)

(b)Explain Nernst distribution law and its applications.

Scheme of Valuation

PART –A:

1. Preparation   3 M
   Structure   2 M
2. Structure of SO_2 3 M
   Structure of SO_3 2 M
3. Explanation   5M
4. Explanation   5M
5. Derivation   5M
6. Any 5 applications   5M
7. Explanation   5M
8. Explanation   5M

PART –B:

9. (a) Preparation   4 M
   Structure   4 M
   (b) Definition   2M
   Structures of AX_3 & AX_5 6 M
10. (a)i. Magnetic properties   4M
    ii. Ability to form complexes   4M
    (b)Explanation   8 M
11. (a) Space lattice, Unit cell   6 M
    Lattice point   2 M
    (b) Stoichiometric defects   4M
    Non Stoichiometric defects   4M
12. (a)Derivation   8M
    (b)Definition   2M
    Classification   6M
13. (a) Definition   2M
    Explanation   6M
    (b) Definition   2M
    Applications   6M

II Langauge - Sanskrit IB.A., B.Com. B.Sc

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I YEAR UG SEM-I END EXAMINATIONS - MARCH 2023

Subject : Sanskrit

Time : 3Hrs

Paper Code:SAN20102

Max. Marks : 60M

SECTION- A (प्रथमोभागः) 5×4=20

Should be answerd in Sanskrit

Answer any five of the following.

1. श्लोकं पूरयित्वा भावञ्च लिखत ।

   सान्त्विता .... राज्यमकण्टकम् ॥

   अथवा

   दत्तमिष्टं .... सत्यपरो भवेत् ॥

2. श्लोकं पूरयित्वा भावञ्च लिखत ।

   सार्थः प्रवसतो .... मित्रं मरिष्यतः ।

   अथवा

   मानं हित्वा .... सुखी भवेत् ॥

3. सविभक्तिकं शब्दमेकं सम्पूर्णतया लिखत ।

   कवि

4. सविभक्तिकं शब्दमेकं सम्पूर्णतया लिखत ।

मति

5. द्वयोः निर्दिष्टलकारयोः सर्वाणि धातुरूपाणि लिखत ।

अ. भवेत्   आ. द्रक्ष्यति

6. सन्धिनाम निर्देशपूर्वकं सन्धत्त ।

इ. महा + उत्सवः   ई. साधु + इति   ऋ. मह्य + इक्षाः

 3. राम + अनुजः   ऊ. तथा + राव

7. सन्धिनाम निर्देशपूर्वकं विघटयत ।

उ. षण्णगर्यः   ऊ. तज्जलम्   ऋ. गुरूपदेशः

रा. तन्त्र   रो. तद्दीका

8. द्वयोः समासनाम निर्देशपूर्वकं विग्रहवाक्यं लिखत ।

क. गोसुखम्   ख. नीलोत्पलम्

SECTION- B (द्वितीयोभागः)

Answer any five of the following.   5×8=40

9. आर्यपादुकाभिषेकः इति पाठ्यभागसारांशं लिखत ।

अथवा

यक्षप्रश्नेषु वर्णितान् लौकिक धर्मान् वर्णयत ।

10. विवेकानन्दसूक्तयः इति पाठ्यभागसारांशं लिखत ।

अथवा

विवेकानन्दसूक्तयः इति पाठ्यांशात् के के अंशाः विद्यार्थिभिः अवधेयाः?

11. अत्युत्कटैः पापपुण्यैः इहैव फलमश्नुते इति पाठ्यभागसारांशं लिखत ।

अथवा

वीरवर-कथां विशदयत ।

12. द्वयोः ससन्दर्भं व्याख्यात ।

धर्मशास्त्रं नयति च सत्ये च प्रतिष्ठति ।

लोभं हित्वा सुखी भवेत् ।

अथवा

बहुमित्रकरः सुखं वसते यश्च धर्मरतः स गतिं लभते ।

अश्मनो हृदयं नास्ति नदी वेगेन वर्धते ।

13. द्वयोः ससन्दर्भं व्याख्यात ।

उदारचरितानां तु वसुधैव कुटुम्बकम् ।

गृहमागते अरावपि आतिथ्यं कर्तुमुचितम् ।

अथवा

द्वौ बाहू तृतीयश्च खड्गः ।

अनेन सदृशो लोके न भूतो न भविष्यति ।

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Fundamentals of Microbes and Non Vascular Plants   Paper Code: BOT201305

Time : 3Hrs   Max. Marks : 60 M

SECTION-A

Answer any FIVE of the Following Questions   5x4=20M

1) T.M.V. Structure

2) Citrus Canker

3) Cyano bacteria as SCP

4) Blast of Rice (or) Neck blast

5) Ecology of Lichens

6) Pigments & Reserved food materials in algae.

7) Scalriform Conjugation in Spirogyra

8) Funaria Sporophyte

SECTION-B

Answer ALL the Following Essay Questions   5x8=40M

1)(a) Write in detail about R.H. Whittaker's Five Kingdom classification

(or)

(b) Describe the transmission methods of plant diseases by viruses and control measures

2)(a) Write brief account of Actinomycetes

(or)

(b) Write an Essay on reproduction of bacteria

(3)(a) Describe about the Life cycle of Puccinia

(or)

(b) Give an account on Economic Importance of Lichens

(4) (a) Write above the reproduction of Polysiphonia

(or)

(b) Economic Importance of Algae

(5)(a) Write general Characteristics of Bryophytes

(or)

(b) General account on Evolution of Sporophyte in Bryophytes.

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I YEAR UG SEM-1 END EXAMINATIONS –MARCH 2023

Subject : Fundamentals of Accounting

Paper Code: FA201201

Time : 3Hrs

Max. Marks : 60 M

Section –A

Answer FIVE questions

[5 × 8 =40 marks]

1. Explain the accounting concepts and accounting conventions. (OR)

2. Difference between book keeping and accounting.

3. Explain various types of subsidiary books. (OR)

4. Prepare three column cash book from the following.

2021		₹
Jan		
1	Cash in hand	2,500
1	Cash at bank	10,000
3	Paid into bank	1,000
5	Bought furniture and issued cheque	2,000
8	Purchased goods for cash	500
12	Received from Madhu	980
	Discount allowed	20
14	Cash sales	4,000
16	Paid to Raju by cheque	1,450
	Discount	50
19	Paid into bank	400
23	Withdrew from Bank for private expenses	600
24	Received chequefrom Ravi	1,430
	Allowed him discount	20
26	Deposited Ravi's cheque into bank	
28	Withdrew cash from Bank for office use	2,000
30	Paid rent by cheque	800

5. Explain the various methods of preparing trial balance (OR)

6. What is an error and explain the types of errors.

7. Causes for difference of balance between cash book and pass book? (OR)

1

8. Prepare a bank reconciliation statement from the following particulars.

   a) Balance as per pass book Rs. 25,000

   b) Cheques issued but not presented for payment Rs. 12,000

   c) Cheques deposited but not collected 2,500

   d) Interest credited in pass book only Rs. 150

   e) Wrong credit in pass book Rs. 12,600

   f) Bank charges debited in pass book only Rs. 120

9. Write about capital expenditures and revenue expenditures   (OR)

10. From the following Trail Balance and adjustments prepare Trading, Profit & Loss Account and Balance Sheet 31-12-2021.

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Purchases	3,00,000	Sales	4,75,000
Machinery	90,000	Capital	90,000
Sales returns	4,000	Purchases returns	5,000
Debtors	65,000	Creditors	70,000
Cash in hand	30,000	Commission received	2,000
Stock (1-1-2020)	50,000		
Wages	40,000		
Salaries	45,000		
Rent and taxes	3,900		
Furniture	8,000		
Fright	6,100		
	6, 42,000		6, 42,000

Adjustments:

   a. Closing stock Rs. 52,000

   b. Outstanding salaries Rs. 6,000

   c. Depreciate on Machinery @ 5% and Furniture @ 10 %

   d. Provide interest on capital @ 10 %

Section-B

Answer Any **Five** of the Following Questions. $[5 \times 4 = 20 \text{ marks}]$

11. What are the objectives of accounting?

12. Accounting cycle.

13. Petty cash book.

14. Advantages of subsidiary books.

15. *What is Suspense account?*

16. Importance of Bank Reconciliation Statement.

17. Trade Discount and Cash Discount.

18. Trading Account.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Fundamentals of Textiles Fundamentals of Textiles**   Paper Code: **HFT201303**

Time : 3Hrs   Max. Marks : 60 M

Part- A

Answer any five of the following; each question carries 4 marks   **5x4=20**

1. Importance of studying textiles.
2. How will you identify cotton and wool by burning test?
3. Write a note on use and care of wool.
4. Explain the importance of weighting of silk.
5. Write about the properties of nylon.
6. Write a note on blends of protein fibers.
7. Brief note on mechanical spinning.
8. What are textured yarns?

Part- B

Answer five questions each carries 8 marks.   **5x8=40 Marks**

9. a. Discuss the primary properties of textile fibers.

or

b. Explain in detail about classification of textile fibers.

10. a. Describe the production of silk.

or

b. Write in detail about the properties of cotton.

11. a. Write in detail about production of acrylic fibers.

or

b. Explain the use and care of polyester.

12. a. Write in detail about the importance of blends.

or

b. Describe the properties of asbestos.

13. a. Describe the process of chemical spinning.

or

b. Explain in detail about types of yarns.

Part- A

Answer any five of the following; each question carries 4 marks   5x4=20

1. Importance of studying textiles. 4m
2. How will you identify cotton and wool by burning test? 2+2
3. Write a note on use and care of wool. 4m
4. Explain the importance of weighting of silk.4m
5. Write about the properties of nylon. 4m
6. Write a note on blends of protein fibers. 4m
7. Brief note on mechanical spinning. 4m
8. What are textured yarns? 4m

Part- B

Answer five questions each carries 8 marks.   5x8=40 Marks

9. a. Discuss the primary properties of textile fibers. 8m

or

b. Explain in detail about classification of textile fibers. 8m

10. a. Describe the production of silk. 8m

or

b. Write in detail about the properties of cotton, physical and chemical. 4+4

11. a. Write in detail about production of acrylic fibers. 8m

or

b. Explain the use and care of polyester.4+4

12. a. Write in detail about the importance of blends. 8m

or

b. Describe the properties of asbestos. 8m

13. a. Describe the process of chemical spinning. 8m

Or

b. Explain in detail about types of yarns. 8m

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Problem Solving in C**
Time : 3Hrs

Paper Code: **CS201304**
Max. Marks : 60 M

SECTION-A

I. Answer any FIVE of the following questions.   5x4=20

1. What is operator? Explain different types of operators.

2. What is flow chart? What are the advantages of flow chart?

3. What is an array? Declaration of an array and accessing elements of an array.

4. Difference between while loop and do while loop.

5. Explain Storage classes?

6. Difference between structure and union?

7. Expain the types memory allocation in c.

8. Explain about various fseek() and ftell().

SECTION-B

II. Answer the following questions.   5x8=40

9. (a)Explain generations of computer.

(or)

(b)Write an algorithm to find quadratic equation?

10. (a)Explain the various data types in c.

(or)

(b)What are the looping statement in c? with an example.

11. (a)What is an array? Explain two-dimensional array with an example.

(or)

(b)Explain various strings and character functions

12. (a)What is function? Explain function definition, function declaration, function call.

(or)

(b)What is structure? How to access the members of structure with example.

13. (a)What is pointer? Explain pointer arithmetic and null pointer.

(or)

(b)What is a file? Explain the various file handling functions.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Inorganic & Physical Chemistry**
Time : 3Hrs

Paper Code: **CHE201303**
Max. Marks : 75 M

SECTION - A

Answer **ALL** the questions. Each carries **TEN** marks.   5 X 10 = 50

1. (a) What are silicones? Explain the preparation & Uses of silicones.

Or

   (b) what are inter halogen compounds? Explain the structures of AX_3 & AX_5 type of inter halogen compounds by taking one example each.

2. (a) Discuss in brief the magnetic properties and variable oxidation states of d block elements.

Or

   (b) Explain Lanthanide contraction. Write the consequences of Lanthanide contraction.

3. (a) Write a note on (I) Crystal systems   (ii) Law of rationality indices.

Or

   (b) Explain the defects of crystals briefly.

4. (a) Derive the relationship between critical constants and Vanderwall's constants.

Or

   (b) (I) Write any Four differences between liquid crystals and solids and liquids.

       (ii) Give the applications of Liquid crystals.

5. (a) Explain Nernst distribution law and give it's applications.

Or

   (b) What are colligative properties? Explain the experimental method to determine the molecular weight of the solute by using depression in freezing point.

SECTION -- B

Answer any **FIVE** of the following, each question carries **FIVE** marks.   5 X 5 = 25

6. Write a note on pseudo halogens.

7. Give the preparation and structure of phosphonitrilic halides.

8. Write a short note on free electron theory.

9. Explain Actinide contraction.

10. Derive Bragg's equation for X – ray diffraction of solids?

11. Explain Andrew's isotherms of Carbon dioxide.

12. What are liquid crystals? Give it's classifications.

13. Write a note on solubility product.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Fundamentals of Textiles Fundamentals of Textiles**   Paper Code: **HFT201303**

Time : 3Hrs   Max. Marks : 75 M

PART- A

Answer FIVE questions. Each Question carries 10 Marks   (5x10=50 Marks)

1. a) Write about the Classification of Textile fibers?
   (Or)
   b) Write about Primary properties?

2. a) Describe the manufacture and uses of Cotton fibers?
   (Or)
   b) Write about the Production of Wool?

3. a) Write about the Physical & Chemical properties of Nylon?
   (Or)
   b) Write about manufacture & uses of Acrylic fiber?

4. a) Write about production and uses of Asbestos?
   (Or)
   b) Write about mixtures and blends? Give their importance?

5. a) Write about Chemical Spinning process?
   (Or)
   b) Write about different types of Yarns & Classification of Yarns?

PART- B

Answer any FIVE questions. Each question carries 5 marks   (5x5=25 Marks)

6. Write about Physical properties of Polyster?

7. Write about the Process of Retting?

8. Write about Sericulture?

9. Write about the production of Glass fiber?

10. What are Secondary properties?

11. Write the differences between Woollen and Worsted?

12. Write about any two minor cellulose fibers?

13. Write about the microscopic and burning test of Cotton?

Subject : Introduction to Political Science

Time : 3Hrs

Paper Code: **POL201103**

Max. Marks : 60 M

SECTION A

Answer any FIVE questions and each question carries FOUR Marks.   5 X 4 =20

1. Scope of Political Science.

2. Historical Approach.

3. Force Theory.

4. Modern State.

5. Sources of Law

6. Women Rights.

7. Liberalism.

8. Socialism.

SECTION B

Answer ALL the following questions and each question carries EIGHT marks.   5 x 8 =40

09. A) Explain the meaning of political science and relations with allied disciplines?

(OR)

B) Explain the behavioural and system approach in political theory.

10. A) Define state and describe the elements of the state?

(OR)

B) Explain the Welfare State and its functions?

11. A) Explain the Forms of Authority expounded by Max Weber

(OR)

B) Explain Two Phases of Liberty? List out Safeguards of liberty?

12. A) Explain Classification of rights

(OR)

B) What is the Relation between rights and duties?

13. A) What are the main features of Liberalism?

(OR)

B) Write a note on Theory of surplus Value and Class Struggle

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Business Environment

Time : 3Hrs

Paper Code: BE201203

Max. Marks : 60 M

SECTION – A

I) ANSWER ALL THE QUESTIONS   5X8=40

1. a) Define Business Environment. What factors influencing business environment.

(or)

2. Explain the characteristics of Business Environment.
3. What do you mean by Economic Planning? Explain Five-year Planning.

(or)

4. Define NITI Ayog Explain the functions of NITI Ayog.
5. Define Industrial Policy. Explain Industrial Policy-1991

(or)

6. What are the importance and regulations of New Economic policy?
7. Explain the political and legal environment

(or)

8. Briefly explain the concept and objectives of social responsibility of business towards stakeholders.
9. Briefly explain the role of SAARC and BRICS in Globalization.

(or)

10. What are the objectives, functions and organisation structure of WTO?

SECTION – B

II) ANSWER ANY FIVE OF THE FOLLOWING   5X4=20

11. Micro and Macro Environment

12. Structure of Economy

13. Fiscal policy

14. GST

15. Trade Blocks

16. Demonetisation

17. Competition Law

18. Economic Policy

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Business Environment**

Time : 3Hrs

Paper Code: **BE201203**

Max. Marks : **75 M**

Section –A

Answer **FIVE** questions   (5x10=50Marks)

1. Define business environment? Explain its characteristics.
2. Explain the macro and micro environment.
3. What is Economic environment?   Explain the nature and scope of economic environment.
4. Write about National Development Council and its functions
5. What are the features of New Economic Policy?
6. What is physical policy? What are the objectives and limitations of physical policy?
7. Write about social responsibility of business.
8. Explain the impact of political and legal changes on Indian economy.
9. What is globalization? Explain the impact of globalization on Indian economy.
10. Define WTO? Describe its objectives and functions?

Section-B

Answer Any **Five** of the Following Questions.   (5x5= 25 Marks)

11. Explain scope of business environment.
12. Environment analysis
13. Define NITI AYOG.
14. *Economic environment*
15. Objectives of new economic policy.
16. Political stability.
17. GST
18. SAARC.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Introduction to Political Science   Paper Code: **POL201103**

Time : 3Hrs   Max. Marks : 75 M

SECTION- A   5x10=50

I.   Answer any five of the following Question.

1.   a. Discuss the Nature and Scope of Political Science?

        (OR)

      b. Explain the Traditional Approaches in Political Science?

2.   a. Define State and explain features of State?

          (OR)

      b. Write an essay on Authority and Legitimacy?

3.   a. Write essay on the theory of the Origin of the State?

         (OR)

      b.What is the relations between Rights and ~~DuRight~~? Duties ?

4.   a.Write an essay on Theory of Rights?

         (OR)

      b. What is the Importance of the Freedom. Give details of the Safeguards of Freedom?

5.   a.Discuss the Law Making Process?

         (OR)

      b. Discuss the theory of Marxism?

SECTION-B   5x5=25

II.   Answer any five of the following questions

6.   Force Theory   10. Equity
7.   Modern Approach   11. Liberalism
8.   Social Contact Theory   12. Anarchism
9.   Law &Morality   13. Individualism

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Information Technology**   Paper Code: **IT201204**

Time : 3Hrs   Max. Marks : 60 M

SECTION-A

I. Answer any FIVE of the following questions.   5x4=20

1. What are the basic components of PC? Explain.

2. What are the characteristics and limitations of computers? Discuss.

3. Explain the procedure for Find and Replace in MS word.

4. How to create and save documents in word?

5. What are the features of MS Excel?

6. How can you undo and repeat actions?

7. How to create templets in power point?

8. How to sort and filter data in a table?

SECTION-B

II.Answer the following questions.   5x8=40

9. (a)Write about classification of computer?

   (or)

   (b)Define memory. Write about primary memory units.

10. (a)What are the features and applications in MS word?

    (or)

    (b) Explain about mail merge in MS word.

11. (a)What is pivot Table? How to create a pivot table illustrate with an example.

    (or)

    (b)Explain about different charts in Excel.

12. (a)Explain features of MS Power point.

    (or)

    (b)Write about different types of animations in MS Power point?

13. (a)How to generated reports in MS Access.

    (or)

    b) How to create a query in MS Access?

Subject : Ancient Indian History &Culture (From Indus Valley)   Paper Code: HIS201101

Time : 3Hrs   Max. Marks : 75M

SECTION-A   (50 Marks)

Answer any FIVE questions. Each answer carries 10 marks   5×10=50 MARKS

1) A) Explain the salient features of Indus valley civilization

OR

B) Explain the salient features of Aryan civilization

2)A) Explain about the Jainism and its impact on society

OR

B) Write a note about the Mauryan administration

3) A) Write a note about the Socio.Economic and Religious conditions of Satavahanas

OR

b) Describe the Pallavas contribution to south Indian art and architecture

4) A) Write about the achievements of Samudragupta

OR

B) Estimate the greatness of Harshavardhana

5) A) Write a detailed note about the Chola's local self-government

OR

B) Explain the Socio.Economic and Religious conditions of kakatiyas

SECTION-B

25 MARKS

Answer any FIVE of the following questios   5×5=25

1) Town planning
2) Early vedic period
3) Asoka dhammapolicy
4) Gautamiputra satakarni
5) Sangam literature
6) Mahammud-bin-khasim
7) Mahamoksha parishath
8) Rudramadevi

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Ancient Indian History &Culture (From Indus Valley)   Paper Code: HIS201101

Time : 3Hrs   Max. Marks : 60 M

Time : 3Hrs   Max.Marks:60

SECTION - A
Answer any FIVE of the following question   5×4=20M

1. Caste system
2. Kaniskha
3. Sangam literature.
4. Arab invasions
5. Rudhrama Devi
6. Vardhamana Maha Veera
7. Harsha Vardhana
8. Nagarjunacharya.

SECTION - B
Answer ALL the questions. Each question carries 8 marks   5×8=40M

1. a) Explain the Salient features of Indus Valley civilization?

(OR)

   b) Write about briefly socio – economic, political and religious conditions Rugvedic age?

2. a) Write about teaching of Gowtham Budha?

(OR)

   b) Explain the Administration of Mourya's

3. a) Write about briefly Socio – Economic , political and religious conditions of satavahana's?

(OR)

b) Explain Cultural achievement of Pallavas?

4. a) Why the Gupta period was called as golden age?

(OR)

b) Describe the achievements of Samudra Gupta?

5. a) Describe the village administration of Cholas?

(OR)

b) Write about briefly administration, society, economy achievements of Kakatiya's

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Human Values and Professional Ethics   Paper Code:HVPE20101

Time : 2Hrs   Max. Marks : 50M

SECTION –A

I.Answer any FOUR questions. Each question carries 5 marks   4×5 =20 Marks

1. Write a brief note on Moral and spiritual values

2. What is the Time planning

3. Write about the set of proposals to verify the harmony in the family

4. Write about Virtue and Vice

5. Write about your perspectives on the present scenario, in understanding values in Human relationship

6. Justice and Fairness

7. What is the privacy

8. Write a note on the concepts of respect and equality

SECTION – B

II.Answer all the questions. Each question carries 10 marks   3×10 = 30 Marks

9. Define and write about the significance of value education in classroom?

(OR)

10. How many types of values are there? What are they? Write about them

11. Explain the importance of harmony in the family

(OR)

12.Assess the value of respect in Human relationships

13.Write about the importance of taking intiative and promoting the culture of Openness

(OR)

14.How do you understand the concepts positive co-operation, respecting the competence of

other professions?

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : **Introduction to Microbiology & Microbial Diversity**   Paper Code: **MB201307**

Time : 3Hrs   Max. Marks : 75 M

Time: 3 Hrs   Max. Marks:75

SECTION-A

Answer any five of the following questions: 5x5=25M

Draw labelled diagrams wherever necessary

1. Martinus Beijerinck

2. Whittaker's 5 Kingdom concept

3. Mycoplasmas

4. Lambda Phage

5. Thallus organization in algae

6. Dilution Plating

7. Spore staining

8. Chemical disinfectants

SECTION-B

Answer any five of the following questions: 5x10=50M

Draw labelled diagrams wherever necessary

9a). Discuss the contributions of Robert Koch and Sergei Winogradsky towards Microbiology.

Or

9b). Explain the Carl Woese 3 domain classification of living organisms .

10a). Explain the ultrastructure of Prokaryotic cell with neat labelled diagram.

Or

10b). Discuss the characteristics of Cyanobacteria & archaebacteria.

11a). Write about the general characters of fungi.

Or

11b). Explain the general characters of protozoa.

12a). Discuss the various types of Growth media.

Or

12b). Explain the methods for the preservation of microbial cultures.

13a). Explain the principle and parts of the Bright field microscope .

Or

13b). Write about the Physical sterilization by heating methods.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Introduction to Microbiology & Microbial Diversity

Time : 3Hrs

Paper Code: MB201307

Max. Marks : 60 M

Time: 3 hours

Section – A

Answer any FIVE of the following questions. Each question carries 4 marks.

Draw labeled diagrams wherever necessary.   5x4= 20 M

1. Contributions of Louis Pasteur.

2. Three domain concept of Carl Woese.

3. General Characteristics of Mycoplasma.

4. Modes of reproduction of Fungi.

5. Structure and Nutrition of Protozoa.

6. Micromanipulator.

7. Spore staining.

8. Autoclave.

Section –B

Answer ALL the following questions. Each question carries 8 marks.

Draw a labeled diagram wherever necessary.   5x8 = 40 M

9. a) Write about the contributions of Robert Koch and Ivanovsky.

Or

b) Write about the Whittaker's five kingdom classification.

10. a) Explain in detail about Ultra structure of Bacterial Cell.

Or

   b) Give general characteristics of Cyanobacteria and Archaea.

11. a) Write about Structure and Replication of TMV.

Or

   b) Write in detail about the Thallus organization and reproduction of Algae.

12. a) Discuss about Pure culture techniques – Streak plate and Pour plate.

Or

   b) Write in detail about preservation of Microbial cultures.

13. a) Write about principles of Bright field and Electron Microscopy.

Or

   b) Write in detail about Sterilization and Disinfection techniques – chemical Methods.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Mechanics, Waves and Oscillations

Time : 3Hrs

Paper Code: PHY201302

Max. Marks : 75 M

Time : 3Hrs

Max.Marks:75

SECTION - A

Answer ALL questions

5×10=50M

1. a) Derive the expression for the velocity of the motion of the rocket?

(OR)

b) Derive the Ehler equations for the rigid rotating body and write its applications?

2. a) Define central force and give examples and prove the central force is conservative.

(OR)

b) Write Keplar laws of planetary motion and derive first law of motion.

3. a) Derive Lorentz transformation equations.

(OR)

b) Explain Michelson and Morley experiment?

4. a) Derive equation for the damped harmonic oscillator and its derive its solutions.

(OR)

b) Explain the behavior of two couple oscillators and obtain an equation of motion.

5. a) Explain the production of ultrasonic by Piezo electric method.

(OR)

b) Derive the expression for the Velocity of transverse wave along a stretched string.

SECTION – B

Answer any FIVE questions. 5×5= 25M

6. Explain impact parameter and Rutherford scattering cross section.

7. Write short note on Global positioning system.

8. Derive Einstein mass energy relation.

9. Find the velocity with which a body should be moving such that it gets its mass doubled.

10. The amplitude of seconds pendulum false to half of its initial value in 150 seconds calculate the Q-factor.

11. Derive the equation for simple harmonic oscillator.

12. Steel wire of 50cm long has mass of 5 gram. It is stretched with a tension of 400N. Find the frequency of wire fundamental mode of vibration.

13. Explain the detection of Ultrasonics.

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I YEAR UG SEM-I END EXAMINATIONS –MARCH 2023

Subject : Basic Nutrition
Time : 3Hrs

Paper Code: HBN201301
Max. Marks : 75M

Part - A

Answer any five of the following, each question carries 5marks.

5x5=25

1. Define nutrients with examples.
2. What are various dimensions of health.
3. Write deficiency disorders of vitamin A.
4. *Give functions of Riboflavin.*
5. Give mineral classification.
6. What is thermic effect of food.
7. Give symptoms and causes of dehydration.
8. Give functions of detoxifying agent's like- Anthocyanins, Cholophylls.

Part- B

Answer all the questions ~~any five of the following~~, each question carries 10marks.

5x10=50

9.a) Briefly classify nutrients.

Or

b) Discuss digestion and absorption of macro nutrients.

10.a) Explain functions and dietary sources of fat soluble vitamins.

Or

b) Discuss deficiency disorders of vitamin B complex.

11.a) Discuss the functions, deficiency and sources of zinc.

Or

b) Write functions of Phosphorus along with deficiency disorders.

12.a) write short notes on:-
   I.   Gross fuel value
   II.   Bomb calorimetry

Or

b) Define BMR. Give factors effecting BMR.

13.a) State function of water in body.

Or

b) Give functions of non nutrient components with examples.