

2022 Batch

22ENGT21/24-08-2023

SEE AUG'23

ENGLISH PRAXIS-II

No. of Pages: 3

Time: 3Hrs

No. of Questions: 15

Roll No:	
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Max. Marks: 70M

Pass Min: 28M

SECTION – A

Answer the following:

2 X 5 = 10M

1. (a) What are the steps that Bertrand Russell suggest to avoid foolishness?
OR
(b) How does Katherine Mansfield present the class conflict between innocence and experience through the story "The doll's house"?
2. (a) Why did the author wonder about Deoli station?
OR
(b) What do you learn from the example about Aristotle?

Answer the following:

2 X 5 = 10M

3. (a) Why is the spring wind the "Azure sister" of the West Wind? Describe its activities.
OR
(b) "The dancing girl was rich". Do you agree with this opinion?
Justify your answer by quoting the text.
4. (a) What is the relationship of a fisherman with the sky, the cloud and the waves?
OR
(b) How did Upagupta treat the suffering dancing girl?

SECTION – B

Answer the following:

2 X 10 = 20M

5. (a) How did nightingale bring about a change in the hospital in Scutari?
OR
(b) Why was Florence Nightingale called as "The Lady with the Lamp"?
6. (a) What is the role of fate and chance in the story "An Astrologer's Day"?
OR
(b) Attempt a characters sketch of the Astrologer.

SECTION – C

7. Change the following sentences as directed without changing their sense.

2 X 1 = 2M

- (a) He was 'forced' to retire in 1994. (Use adverb for forced)
- (b) At last he was successful in his venture. (Use verb of successful)

Contd...(2)

8. Choose the right meaningful substitute word for the following statements: 2 X 1 = 2M

(a) One who collects stamps _____.

(b) Study of Birds _____.

9. Complete the following collocations using the words given in the brackets. 2 X 1 = 2M
(do, make, strong)

(a) Could you _____ me a favour.

(b) The tea is _____.

10. Read the following passage and make notes: 4M

The human brain is spherical like a ball. It is divided into two halves called the two hemispheres. The right hemisphere controls the working of the left side of the body, while the left hemisphere controls the right side. Further more each hemisphere controls certain kinds of mental activity. In most people, reasoning or logical thinking and the learning of mathematics and languages are controlled by the left hemisphere while the abilities in the arts, crafts and in music, dance are controlled by the right hemisphere.

11. Prepare curriculum vitae in response to the following advertisement. 4M

Wanted a lecturer in English for a girl's college. The candidate should be a post-graduate aged above thirty five. Even part-time lecturers are acceptable. Should have a pleasing personality with excellent communication skills – previous experience preferable – Apply to post box.116, c/o. "The Hindu" – Vijayawada.

12. Write a letter to the principal of your college with a request for the purchase of more books for the college library. 4M

13. Write a paragraph on ONE of the following proverbs. 4M

(a) All that glitters is not gold.

(b) Where there is a will there is a way.

Contd...(3)

14. Read the following passage and answer the following questions:

5 X 1 = 5M

Do you ever worry about your memory? Perhaps you go into a room and forget what you came for, go blank on names, mislay things? Or there may be something on the tip of your tongue, but you can't get it off. Don't worry. You are perfectly normal. It is the nature of the mind to forget and the nature of man to worry about forgetfulness.

Human beings have a prodigious memory. In a few cubic centimetres the brain stores more information than can be stored in a large computer. Today neurologists, Psychologists, and biologists are studying the different aspects of memory.

There are two types of memory. Short-term memory lasts only for seconds (you look up a telephone number and remember it long enough to dial). Long-term memory is stored probably for life.

Answer the following questions:

- (a) Give two instances of forgetfulness in the passage.
- (b) How much information can the brain store?
- (c) What are the two types of memory?
- (d) Give an instance of short-term memory.
- (e) The author suggests that _____ (choose the best answer)
 - (i) Human beings have a poor memory and so they are forgetful.
 - (ii) Human beings have a good memory and so they are forgetful.
 - (iii) Human beings have a good memory, yet they are forgetful.

15. You are the secretary of the Indian sports club in your town. The meeting of the office bearers of the club is scheduled for the 20th of next month. Prepare an agenda for the meeting.

3M



VIII. Expand any ONE of the following proverbs:

5M

1. Practice makes perfect.
2. All that glitters, not gold.

IX. Read the following passage and answer the following questions:

5 X 1 = 5M

One day a little Indian girl was shut up in a room alone for a whole day because she could not learn English. The child was Sarojini Naidu. Sarojini like the rest of her family, was educated in her early years under her father's own care. Her father wanted her to become a great mathematician or scientist, but she did not like doing sums or conducting experiments. She loved to dream and write poems. She wrote her first poem when she was hardly eleven. At the age of thirteen she wrote a long poem. In this way she began her poetic career.

Answer the following questions:

1. Under whose care Sarojini was educated?
2. What did her father want her to become?
3. At what age she wrote her first poem?
4. Write the antonym for the word 'Shut'.
5. What was her age when she wrote a long poem?

X. Imagine you look the minutes at a meeting of the sales Division of Partha Automobiles, MVP Colony, Visakhapatnam, held on 10 August 2022. Write the minutes of the meeting which had the following agenda. 5M

1. Report of the sales of the company.
2. Proposal for increasing the number of delivery staff at Vijayawada.
3. Any other matter with the permission of the chair.

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SEE AUG'23

ENGT21B/24-08-2023

ENGLISH PRAXIS-II

No. of Pages: 3

Time: 3Hrs

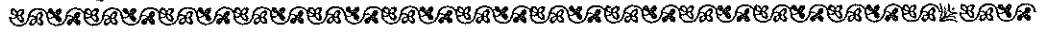
No. of Questions: X

Roll No:

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Max. Marks: 75M

Pass Min: 30M



SECTION - A

I. A. Answer the following:

4 X 2 = 8M

1. What incorrect notion did Aristatle have? What does his example convey?
2. What is the significance of the little lamp in the Doll's house?
3. What does the author say about wars in 'Florence Nightingale'?
4. How does Ruskin Bond describe Deoli station.

B. Answer any ONE of the following:

5M

1. What are the ways in which you can make yourself aware of your own biases?
2. Why were the Kelveys not invited to see the Doll's house?

II. A. Answer the following:

4 X 2 = 8M

1. What are the qualities of the west wind that the poet admires?
2. Why was the dancing girl driven out of the town?
3. How did Upagupta treat the suffering dancing girl?
4. What do you think is the wealth of the fishermen?

B. Answer any ONE of the following:

5M

1. How does Shelley describe the power of West Wind?
2. How does Sarojini Naidu describe the life of the fishermen of Coromandel and their intense love of the see?

III. Answer any TWO of the following:

2 X 7 = 14M

1. Describe Florence Nightingale.
2. Describe the setting in which the astrologer set up shop.
3. How does the narrator build up suspense in the story 'An Astrologer's Day'?
4. Write a note on the terrible conditions in the Cremean hospitals.

Contd...(2)

SECTION - B

IV. A. Change the following sentences as directed without changing their sense: 2 X 1 = 2M

1. I will pour water to the plants. (Use the verb form of water)
2. She was successful in the interview. (Use the verb of successful)

B. Choose the right meaningful substitute word for the following statements: 3 X 1 = 3M

1. One who supervises in the examination hall _____.
2. A building containing tanks of live fish of different species _____.
3. A piece of enclosed land planted with fruit trees _____.

C. Complete the following collocations using the words given in the brackets: 2 X 1 = 2M
(highly, deeply, committing)

1. The prisoner was hanged for _____ murder.
2. The topic is _____ controversial.

V. Read the following passage and make notes:

5M

How does television affect our lives? It can increase our knowledge of the outside world. There are high quality programmes that help us understand many fields of study, science medicine and so on. Moreover television benefits very old people, who can't leave the house. It also affects non-native speakers the advantages of daily informal language practice.

VI. Prepare a curriculum vitae in response to the following advertisement:

4M

M. Suman Karthik – aged 28 years – M.A. (English) B.Ed. – good communication and problem solving skills – MA from S.V. University, Tirupati, 72% marks. B.A. (Adv. English) from Govt. Degree College, Ananthapuram, 76% marks. B.Ed. SK University, Ananthapuram – Intermediate (HEC), Govt. Jr. College, Ananthapuram – worked as a teacher in English for three years. Apply for the post of Junior lecturer in English in St. Joseph Jr. College, Ongole.

VII. Write a letter to the principal of your college requesting for the improvement of the college canteen.

4M

Contd...(3)

SEE AUG'23

LSCT09/24-08-2023

NATIONAL CADET CORPS-I

No. of Pages: 1

Time: 2Hrs

No. of Questions: 10

Roll No:	
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Max. Marks: 40M

Pass Min: 16M



SECTION – A

Answer any TWO of the following:

2 X 5 = 10M

1. Expand NCC. Write the aims and objectives of NCC.
2. Discuss the role of NCC in nation building.
3. Write about hygiene and sanitation.
4. Give an account of basic first aid in common medical-emergencies.

SECTION – B

Answer any THREE of the following:

3 X 10 = 30M

5. Explain the duties of NCC Cadets.
6. What are the benefits of organizing camps?
7. Explain the factors affecting National Integration.
8. Write an essay on personality development.
9. Write about infections and contagious diseases and its prevention.
10. What are the responsibilities of NCC Cadet?

SEE AUG'23

L SCT02/24-08-2023

COMPUTER FUNDAMENTALS AND OFFICE TOOLS

No. of Pages: 1

Roll No:

Max. Marks: 40M

Time: 2Hrs

Pass Min: 16M

No. of Questions: 16



SECTION – A

Answer any *FOUR* of the following:

4 X 7 = 28M

1. Draw the block diagram of a computer and explain.
2. What are the different types of operating systems?
3. Explain the components of writer window.
4. Explain the features of impress presentation.
5. How to enter and edit text in Spreadsheet?
6. Explain various number formatting text in Spreadsheet.

SECTION – B

Answer any *SIX* of the following:

6 X 2 = 12M

7. Define computer.
8. Write any two differences between primary memory and secondary memory.
9. Define operating system.
10. Define header and footer.
11. Explain mail merge.
12. How to add a clip picture in impress presentation?
13. Define auto format.
14. How to change font size in Spreadsheet?
15. What is Spreadsheet?
16. What is a control panel?

TELUGU-III

No. of Pages: 1

Time: 3Hrs.

No. of Questions: 16

Roll No.:

Max. Marks: 75M

Pass Min. : 30M

అక్షరాలను ఉపయోగించి సమాధానాలు రాయండి.

SECTION - A

I. క్రింది వానిలో ఐదొంటికి సంగ్రహరూప సమాధానాలు రాయండి:

5 × 5 = 25వ

8వ ప్రశ్నకు సమాధానం తప్పనిసరిగా వ్రాయండి.

1. భుష - లక్షణాలు.

2. వాక్య నిర్వచనాలు.

3. వ్యాస రచన.

4. అనువాద పద్ధతులు.

5. పత్రికా రచన.

6. రేడియో రచన.

7. అచ్చు మాధ్యమ వికాసం.

8. క్రింది వాక్యాలను ఆంగ్లము నుండి తెలుగులోకి అనువదించండి.

The water in the oceans is hold close to the earth by gravity. But the moon and Sun also have some "pull" on the earth. This means gravity effects water in the oceans. The sea is pulled slightly towards the moon, causing a bulge or high tide. On the opposite side, the sea is pushed away causing a second bulge.

High tides occur twice in about 24 hours. This is because at the same time as the earth own rotates on its axis, the moon is travelling round the earth (every 27½ days). So high tide usually about one hour later every day.

SECTION - B

II. క్రింది వానిలో ఐదొంటికి వ్యాసరూప సమాధానాలు రాయండి.

5 × 10 = 50వ

9. వాక్య బేధాలను వివరించండి.

10. భాషా నిర్మాణంలో వర్ణం-పదం-వాక్యం ప్రాధాన్యతను వివరించండి.

11. కథను నిర్వచించి, ఉత్తమ కథా లక్షణాలను వ్రాయండి.

12. అనువాదంలో ఎదురయ్యే సమస్యలను విశ్లేషించండి.

13. ముద్రణా మాధ్యమ వికాసాన్ని గురించి వివరించండి.

14. సంపాదకీయాలు - సమీక్షలను గురించి విశ్లేషించండి.

15. శ్రవణ మాధ్యమాలను గూర్చి వివరంగా తెల్పండి.

16. యాంకరింగ్ / వ్యాఖ్యానం తీరుతెన్నులను విశ్లేషించండి.

HINDI-III

No. of Pages: 2

Time: 3Hrs.

No. of Questions: 13

Roll No.:

Max. Marks: 75M

Pass Min. : 30M

SECTION-A

I. निम्न लिखित प्रश्नों में से किन्हीं पाँच प्रश्नों का उत्तर दीजिए :-

5 X 5 = 25M

1. व्याख्या कीजिए ।
जाति न पूछो साधु की, पूछ लीजिए ज्ञान ।
मोल करो तलवार का, पडा रहन दो ग्यान ॥
2. किसी एक कवि का साहित्यिक परिचय दीजिए ।
(i) सूरदास (ii) मैथिली शरण गुप्त
3. 'तोडती पत्थर' कविता की विशेषताएँ लिखिए ।
4. व्याख्या कीजिए ।
जिसकी रज में लोट-लोट कर बडे हुए है,
घुटनों के बल सरक-सरक कर खडे हुए है ।
5. प्रेममार्गी शाखा की विशेषताएँ बताइए ।
6. 'कंप्यूटर' के उपयोग बताइए ।
7. कार्यालय ज्ञापन के बारे में लिखिए ।
8. अनुवाद किसे कहते है?

SECTION-B

II. निम्न लिखित प्रश्नों का उत्तर दीजिए:-

5 X 10 = 50M

9. किसी एक कविता का सारांश विशेषताओं के सहित लिखिए ।
(i) मातृभूमि (ii) तोडती पत्थर
10. (अ) हिंदी साहित्य का इतिहास - काल विभाजन के बारे में लिखिए ।
अथवा
(आ) ज्ञानाश्रयी शाखा विवेसताओं पर प्रकाश डालिए ।
11. किसी एक विषय पर निबंध लिखिए ।
(i) समाचार पत्र (ii) पर्यावरण प्रदूषण (iii) बेकारी की समस्या

12. (अ) हिन्दी में अनुवाद कीजिए ।

- (i) Mohan is a little boy.
- (ii) The clock is on the wall.
- (iii) Gopal eats the fruit.
- (iv) We play in the evening.
- (v) How is this fruit?

अथवा

(आ) अंग्रेजी में अनुवाद कीजिए ।

- (i) तुम कहाँ जाते हो ?
- (ii) बिल्ली दूध पीता है ।
- (iii) राम रोटी खाता है ।
- (iv) वे गाँव में रहते हैं ।
- (v) क्या तुम हिंदी सीखते हो ?

13. किसी एक पर टिप्पणी लिखिए ।

- (i) परिपत्र
- (ii) कार्यालयीन ज्ञापन
- (iii) राष्ट्र भाषा हिंदी



SEE AUG 2023

CLSCT01 / 25-08-2023

Environmental Studies

No. of Pages: 01

Roll No:

Max. Marks: 40M

Time: 2 Hrs

No. of Questions: 09

Pass Min.: 16M

Section A

Answer any TWO of the following:

2 x 5 = 10M

1. Explain the levels of biodiversity.
2. Explain the scope of environmental education.
3. Analyse the consequences of Global Warming.
4. Write a note on control measure of Industrial waste.

Section B

Answer any THREE of the following:

3 x 10 = 30M

5. Describe the structure of a typical ecosystem.
6. Explain multi disciplinary nature of environmental education.
7. Explain the major threats to loss of biodiversity.
8. Explain the major causes and effects of water pollution.
9. Montreal and kyo to protocols. Explain.

* * *

No. of Pages: 1

Time: 3Hrs.

No. of Questions: 10

Roll No.:

Max. Marks: 70M

Pass Min. : 28M

అక్షరాలను తప్పకుండా చదివినట్లుగా ప్రతి ప్రశ్నకు సమాధానాలు వ్రాయండి.

SECTION - A

క్రింది వానికి సంగ్రహరూప సమాధానాలు వ్రాయండి:

5 × 4 = 20మా

1. (అ) ఆధునిక కవిత్వ నేపథ్యాన్ని వివరించండి.
లేదా
(ఆ) దువ్వూరి రామిరెడ్డి కవిని పరిచయం చేయండి.
2. (అ) కన్యక పాత్ర చిత్రణ.
లేదా
(ఆ) అనిసెట్టి సుబ్బారావు.
3. (అ) కథానిక లక్షణాలను తెల్పండి.
లేదా
(ఆ) చిన వీరయ్య పాత్ర చిత్రణ.
4. (అ) తెలుగు నవలలు - వర్గీకరణ.
లేదా
(ఆ) రథచక్రాలు నవలలో జానకి పాత్ర.
5. (అ) తెలుగు నాటకాన్ని పరిచయం చేయండి.
లేదా
(ఆ) తులనాత్మక విమర్శ గురించి రాయండి.

SECTION - B

క్రింది వానికి వ్యాసరూప సమాధానాలు వ్రాయండి.

5 × 10 = 50మా

6. (అ) ఆధునిక కవిత్వ లక్షణాలను తెలపండి.
లేదా
(ఆ) 'కన్యక' ఆధారంగా గురజాడ అందించిన సందేశాన్ని వివరించండి.
7. (అ) తెలుగు కథానిక వికాసాన్ని విశదీకరించండి.
లేదా
(ఆ) 'భయం' కథలో సత్తెయ్య పాత్రను రచయిత ఎట్లా చిత్రించాడు?
8. (అ) నవల ఆవిర్భావ వికాసాలను తెలపండి.
లేదా
(ఆ) 'రథచక్రాలు' నవల కథను సంగ్రహంగా వ్రాయండి.
9. (అ) తెలుగు నాటక పరిణామాన్ని గూర్చి వ్రాయండి.
లేదా

TELUGU-II

No. of Pages: 1

Time: 3Hrs.

No. of Questions: 16

Roll No.:

Max. Marks: 75M

Pass Min. : 30M

SECTION - A

క్రింది వానిలో ఐదింటికి సంగ్రహరూప సమాధానాలు వ్రాయండి:

5 × 5 = 25వ

1. ఆధునిక కవిత్వ వికాసం గురించి వ్రాయండి.
2. దువ్వూరి రామిరెడ్డి.
3. తెలుగు కథానిక.
4. సుబ్బయ్యమ్మ పాత్ర.
5. విశ్వం, భద్రల సంబంధం.
6. రాజు సెట్టితో చెప్పిన పలుకులేవి?
7. కేతిగాడు.
8. విమర్శ ప్రయోజనం.

SECTION - B

క్రింది వానిలో ఐదింటికి వ్యాసరూప సమాధానాలు వ్రాయండి.

5 × 10 = 50వ

9. అనిసెట్టి 'మాతృ సంగీతాన్ని' తెలుపండి.
10. ఆధునిక కవిత్వ నేపథ్యాన్ని వివరించి, ఆధునిక కవిత్వ లక్షణాలను తెలుపండి.
11. శేషయ్యను చినవీరయ్య మోసగించిన విధాన్ని వివరించండి.
12. కన్యక ఆధారంగా గురజాడ ఆధునిక దృశ్యధాన్ని తెలుపండి.
13. 'రథచక్రాలు' నవలపై సమీక్షా వ్యాసం రాయండి.
14. యక్షగానం ద్వారా రచయిత ఇచ్చిన సందేశాన్ని తెలుపండి.
15. 'భయం' కథను సంగ్రహంగా తెలుపండి.
16. విమర్శలోని వివిధ బేధాలను వివరించండి.



HINDI-II

No. of Pages: 2

Time: 3Hrs.

No. of Questions: 09

Roll No.:

Max. Marks: 70M

Pass Min. : 28M

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SECTION - I

निम्न लिखित प्रश्नों का उत्तर दीजिए :-

4 X 5 = 20M

1. (a) साहित्य और संस्कृति का कैसा संबंध है?  
अथवा  
(b) भारत की भाषा भेद की समस्या का परिचय दीजिए ।
2. (a) एच.आई.वी / एड्स के विषाणु कैसे फैलते हैं ?  
अथवा  
(b) 'विवेक बत्तरा' चरित्र चित्रण कीजिए ।
3. (a) 'भूख हडताल' कहानी का उद्देश्य क्या है ?  
अथवा  
(b) 'परमात्मा का कुत्ता' कहानी के शीर्षक की सार्थकता लिखिए ।
4. (a) संधि माने क्या है? कितने प्रकार हैं ?  
अथवा  
(b) पत्र-लेखन कितने प्रकार हैं । उदाहरण सहित लिखिए ।

SECTION - II

5. (a) 'संस्कृति और साहित्य का परस्पर संबंध' पाठ का सारांश लिखिए ।  
अथवा  
(b) 'भारत एक है' पाठ का सारांश लिखिए ।

10M

SECTION - III

6. (a) 'भूख हडताल' कहानी का सारांश लिखिए ।  
अथवा  
(b) 'परमात्ता का कुत्ता' कहानी का सारांश लिखिए ।

10M

SECTION - IV

7. (a) किन्ही दस शब्दों को अंग्रेजी से हिन्दी में अनुबाद कीजिए । 10 X 1 = 10M

- (i) Accountant (ii) Behaviour (iii) Cancel (iv) Deduction (v) Efficiency  
(vi) Fitness certificate (vii) Governor (viii) Hard (ix) Identity card (x) Journalist  
(xi) Lecturer (xii) Peon (xiii) Registrar (xiv) Superintendent (xv) Typist

अथवा

(b) किन्ही दस शब्दों को हिन्दी से अंग्रेजी में अनुबाद कीजिए ।

- (i) आकाशवाणी (ii) हाखा कार्यालय (iii) शिबिर कार्यालय (iv) जिला बोर्ड (v) राजदूतावास  
(vi) उडन-दस्ता (vii) अतिथि गृह (viii) हिन्दी अधिकारी (ix) प्रभारी (x) न्यायाधीश  
(xi) श्रम अधिकारी (xii) आचार्य (xiii) थाना (xiv) प्रतिवेदक (xv) बिक्रीकर्ता

8. (a) किन्ही पाँच शब्दों का संधि विच्छेद कीजिए । 5 X 2 = 10M

- (i) हरेक (ii) प्रत्येक (iii) नयन (iv) हिमालय (v) नरेन्द्र  
(vi) सूर्योदय (vii) एकैक (viii) नमस्ते

अथवा

(b) किन्ही पाँच शब्दों को वाक्यों में प्रयोग कीजिए ।

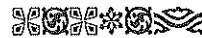
- (i) अज्ञानांधकार (ii) हवन (iii) दुर्भिक्ष (iv) चिरस्थायी  
(v) पथ-प्रदर्शक (vi) तिनके का सहारा (vii) आद्यंत (viii) बसरकरना

SECTION - V

9. (a) लिपिक (कलर्क) पद के लिए आवेदन पत्र लिखिए । 10M

अथवा

(b) किसी पुस्तक विक्रेता के नाम पत्र लिखिए ।





SEE AUG'23

HINT21A /26-08-2023

HINDI-II

No. of Pages: 2

Time: 3Hrs

No. of Questions: 13

Roll No:

Max. Marks: 75M

Pass Min: 30M

PART-A

I निम्न लिखित प्रश्नों में से किन्हीं पाँच प्रश्नों का उत्तर दीजिए ।  $5 \times 5 = 25 M$

1. एच.आय.वी/एड्स के इतिहास पर प्रकाश डालिए ?
2. भारत की भाषा-भेद की समस्या का परिचय दीजिए ?
3. अनेक आक्रमणों के बावजूद भारतीय संस्कृति कैसी रही है ?
4. परमात्मा का कुत्ता कहानी की विशेषताएँ बताइए ?
5. जरिया कहानी का उद्देश्य क्या है ?
6. नारायणराव का चरित्र चित्रण कीजिए ?
7. अनुवाद की परिभाषा देते हुए उसके भेदों का परिचय दीजिए ?
8. स्वर संधि का परिचय दीजिए ?

PART-B

II. निम्न लिखित सभी प्रश्नों का उत्तर दीजिए ।

$5 \times 10 = 50 M$

9. (अ) 'भारत एक है' निबंध का सारांश लिखिए ।

(अथवा)

(आ) 'संस्कृति और साहित्य' का परस्पर संबंध निबंध का सार प्रस्तुत कीजिए

(PTO)

10. (अ) 'भूख हड़ताल' कहानी का सारांश लिखिए ।

(अथवा)

(आ) 'परमात्मा का कुत्ता' कहानी का सारांश लिखिए ।

11 अ) अंग्रेजी से हिन्दी में अनुवाद कीजिए ।

i. Accept ii. Cashier iii. Chairman iv. Zonal Office v. Governor

(OR)

आ) हिन्दी से अंग्रेजी में अनुवाद कीजिए ।

i. प्राचार्य ii. मुख्यमंत्री iii. निदेशक iv. लेखा परीक्षक v. आकाशवाणी

12. अ) किन्हीं पाँच का वाक्यों में प्रयोग कीजिए ।

i. अज्ञानांधकार ii. पथ प्रदर्शक iii. बसर करना iv. उज्ज्वल v. विषाणु

vi. हवन vii. तिनके का सहारा viii. आद्यंत

(OR)

आ) किन्हीं पाँच का संधि-विच्छेद कीजिए ।

i. सदैव ii. महोदय iii. महात्मा iv. गायक v. देवालय

vi. प्रत्येक vii. कवीन्द्र viii. निष्कर्म

13. आवश्यक पुस्तकों का ऑर्डर देते हुए किसी एक पुस्तक विक्रेता के नाम

एक पत्र लिखिए ।

(अथवा)

अनुवादक की नौकरी के लिए प्रबंधक के नाम एक पत्र लिखिए ।

SEE AUG 2023

HIST42 / 28-08-2023

History & Culture of Andhra (from 1512-1956 A.D)

No. of Pages: 01

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

\*\*\*\*\*

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Write about Ibrahim Quli Qutub Shah.
2. Explain about Uyyalawada Narasimha Reddy.
3. Discuss the impact of 1857 Revolt in Andhra.
4. Give an account of Gurajada Apparao.
5. Discuss the role played by Alluri Sitarama Raju.
6. Define Andhra Mahasabha and its contribution.
7. Write about Bipin Chandra Pal tour in Andhra.
8. Explain the battle of Bobbili.

Section B

Answer the following:

5 x 10 = 50M

9. a) Explain the administration of the Qutubshah's.  
OR  
b) Give an account of the Northern circars and discuss how the British acquired Northern circars?
10. a) Write about the administrative reforms of the British in Andhra.  
OR  
b) Discuss the services of Sir Thomas Munroe in Andhra.
11. a) Write about the social reform movement in Andhra.  
OR  
b) Give an account of Sri Sri.
12. a) Explain the non cooperation movement in Andhra.  
OR  
b) Write about the extremist movement in Andhra.
13. a) Describe the formation of Andhra State.  
OR  
b) Give an account of the services and sacrifice of the Potti Sri Ramulu.



## CORPORATE ACCOUNTING

No. of Pages: 03

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

\*\*\*\*\*

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. What is meant by Buy back system?
2. What are the types of preference shares?
3. Explain about issue of shares premium and at discount.
4. Explain yield method with suitable examples.
5. What do you understand by interm dividend?
6. What are super profits?
7. What is bonus share?
8. What is Goodwill?

Section B

Answer the following:

5 x 10 = 50M

9. a) What is a share? Explain different types of shares.  
or  
b) X Ltd., made an issue at 1,00,000 equity shares of Rs.10 each, payable Rs.2.50 on application, Rs.3.50 on allotment and Rs.4 on call. All the shares are subscribed and amounts duly received. Pass journal entries.
10. a) What are the advantages of buy-back system?  
or  
b) A company on 31<sup>st</sup> December 2020 redeemed Rs.10,000, 9% debentures out of capital by drawing a lot. Similarly, the company on 31<sup>st</sup> December, 2021 redeemed Rs.15,000, 9% debentures out of profits by drawing a lot. You are required to pass journal entries in the books of a company.
11. a) Define goodwill. Explain the factors influencing goodwill and its need.  
or  
b) Calculate the value of goodwill under Annuity of super profits, from the following information:
  - i) Net profits for last 5 years: Rs.38,000, Rs.40,000, Rs.49,000, Rs.45,000, Rs.48,000
  - ii) Capital employed Rs.4,00,000
  - iii) Reasonable rate of expected return on capital 10%.
  - iv) Present value of annuity of one rupee for five year at 10% interest is Rs.3.78.

Contd.....(2)

## CORPORATE ACCOUNTING

12. a) What are the methods of valuation of shares?

or

b) Following are the liabilities and assets of X Co. Pvt Ltd., as on 31<sup>st</sup> March 2021.

| Liabilities                               | Rs.      | Assets                                     | Rs.      |
|-------------------------------------------|----------|--------------------------------------------|----------|
| Share capital 10,000 shares of Rs.10 each | 1,00,000 | Land & buildings at cost less depreciation | 70,000   |
| General reserve                           | 50,000   | Machinery at cost less depreciation        | 70,000   |
| Taxation reserve                          | 20,000   | Trade marks (cost)                         | 20,000   |
| Workmen's saving a/c                      | 20,000   | Stock                                      | 20,000   |
| Surplus a/c                               | 30,000   | Debtors                                    | 48,000   |
| Sundry creditors                          | 40,000   | Cash at bank                               | 25,000   |
|                                           |          | Preliminary expenses                       | 7,000    |
|                                           | 2,60,000 |                                            | 2,60,000 |

Plant and machinery is worth Rs.60,000 and land and buildings are worth Rs.1,30,000 as valued by an independent valuer Rs.5,000 at the debtors is to be taken as bad. The profits of the company are: 2013-14 Rs.50,000; 2014-15 Rs.60,000 and 2015-16 Rs.70,000.

It is the practice of the company to transfer 20% of the profits to reserve.

Ignoring taxation find out the value of share of the company on their intrinsic (or) net assets basis as also on yield basis. Shares of similar companies quoted in the stock exchange. Yield 12% on their market value. Goodwill of the company may be taken at Rs.1,00,000.

13. a) Explain the important provisions of Companies Act 2013 in respect of issue of shares.

or

b) The trial balance of X company as on 31-3-2013.

| Particulars       | Rs.    | Particulars   | Rs.      |
|-------------------|--------|---------------|----------|
| Investments       | 24,500 | Share capital | 1,25,000 |
| Staff welfare exp | 37,500 | Reserve       | 6,500    |
| Opening stock     | 75,000 | Sales         | 2,25,000 |
| Purchases         | 57,500 | Discount      | 14,000   |
| Wages             | 30,000 | P & L a/c     | 19,500   |
| Salaries          | 4,000  | Creditors     | 10,000   |
| Rent              | 2,500  |               |          |

## CORPORATE ACCOUNTING

|                                |          |  |          |
|--------------------------------|----------|--|----------|
| Debtors                        | 31,000   |  |          |
| Plant & machinery              | 15,000   |  |          |
| Furniture                      | 9,000    |  |          |
| Sundry expenses                | 4,500    |  |          |
| Dividend paid                  | 6,000    |  |          |
| Trade marks                    | 8,500    |  |          |
| Cash at bank                   | 45,000   |  |          |
| Difference in trial<br>balance | 50,000   |  |          |
|                                | 4,00,000 |  | 4,00,000 |

Adjustments:

- i) Closing stock was Rs.95,000
  - ii) Depreciate plant and machinery at 20%.
  - iii) Make a provision for income tax at 50%.
  - iv) Ignore corporate dividend tax.
  - v) Outstanding staff welfare bill Rs.2,500.
- Prepare statement of profit & loss a/c of the company.

\* \* \*





SEE AUG'23

MATT41A/28-08-2023

LINEAR ALGEBRA

No. of Pages: 2

|          |  |
|----------|--|
| Roll No: |  |
|----------|--|

Max. Marks: 75M

Time: 3Hrs

Pass Min: 30M

No. of Questions: 13



SECTION - A

Answer any FIVE of the following:

5 X 5 = 25M

1. Let  $p, q, r$  be the fixed elements of a field  $F$ . Show that the set  $W$  of all triads  $(x, y, z)$  of elements of  $F$ , such that  $px + qy + rz = 0$  is a vector subspace of  $V_3(F)$ .
2. If  $\alpha, \beta, \gamma$  are linearly independent vectors of  $V(R)$  show that  $\alpha + \beta, \beta + \gamma, \gamma + \alpha$  are also L.I.
3. Show that  $(2, 2, 1), (2, 1, 1), (2, 1, 0)$  form a basis of  $(1, 2, 1)$  in  $V_3(F)$ .
4. Describe explicitly of the linear transformation  $T : R^2 \rightarrow R^2$  such that  $T(2, 3) = (4, 5)$  and  $T(1, 0) = (0, 0)$ .
5. Solve the system  $2x - 3y + z = 0, x + 2y - 3z = 0, 4x - y - 2z = 0$ .
6. If the matrix  $A$  is non-singular show that the eigen values of  $A^{-1}$  are the reciprocals of the eigen values of  $A$ .

7. Find the rank of the following matrix 
$$\begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ 1 & 1 & 0 \end{bmatrix}$$
.

8. In an inner product space any orthonormal set of vector is linearly independent.

SECTION - B

Answer the following:

5 X 10 = 50M

9. (a) Let  $V(F)$  be a vector space. A non empty set  $W \subseteq V$ . The necessary and sufficient condition for  $W$  to be a subspace of  $V$  is  $a, b \in F$  and  $\alpha, \beta \in V \Rightarrow a\alpha + b\beta \in W$ .

OR

- (b) Show that the vector  $\alpha = (2, -5, 3)$  in  $R^3$  cannot be expressed as a linear combination of the vectors  $e_1 = (1, -3, 2), e_2 = (2, -4, -1)$  and  $e_3 = (1, -5, 7)$

10. (a) Let  $W$  be a subspace of a finite dimensional vector space  $V(F)$  then  
 $\dim V/W = \dim V - \dim W$ .

OR

- (b) Let  $W_1$  and  $W_2$  be two subspaces of  $R^4$  given by  $W_1 = \{(a, b, c, d) : b - 2c + d = 0\}$   
 $W_2 = \{(a, b, c, d) : a = d, b = 2c\}$ . Find the basis and dimension of (i)  $W_1$  (ii)  $W_2$  (iii)  
 $W_1 \cap W_2$  and hence find  $\dim(W_1 + W_2)$ .

11. (a) Let  $U(F)$  and  $V(F)$  be two vector spaces and  $T : U \rightarrow V$  be a linear transformation.  
 Let  $U$  be a finite dimensional. Then prove that  $\gamma(t) + \rho(t) = \dim U$ .

OR

- (b) Let  $T : U \rightarrow V$  be a linear transformation  $\{(1, 2, 1), (2, 1, 0), (1, -1, -2)\}$  and  
 $\{(1, 0, 0), (0, 1, 0), (1, 1, 1)\}$  are the basis of  $U$  and  $V$ . Find  $T$  for the transformation of the  
 basis of  $U$  to the basis of  $V$ .

12. (a) Find the characteristic roots and the corresponding characteristic vectors of the matrix

$$A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}.$$

OR

- (b) Verify the Cayley-Hamilton theorem for the matrix  $A = \begin{bmatrix} 2 & 1 & 2 \\ 5 & 3 & 3 \\ -1 & 0 & -2 \end{bmatrix}$ .

13. (a) State and prove Bessel's inequality.

OR

- (b) State and prove Cauchy – Schwarz's inequality.

\*\*\*\*\*

## CELL BIOLOGY, GENETICS &amp; PLANT BREEDING

No. of Pages: 01

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

\*\*\*\*\*

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Discuss about different models of plasma membrane structure.
2. Distinguish between prokaryotic cell and eukaryotic cell.
3. Explain the morphology of eukaryotic chromosome.
4. Describe the concepts of incomplete dominance with example.
5. Elucidate the structure and functions of mRNA.
6. State the role of RFLP in molecular biology.
7. Discuss about euchromatin and heterochromatin.
8. What is clonal selection? Explain its significance.

Section B

Answer the following:

5 x 10 = 50M

9. a) Explain ultra structure and functions of cell wall.  
or  
b) Explain the ultra structure of plant cell.
10. a) Write about chromosomal aberrations.  
or  
b) Explain about organization of DNA in a chromosome.
11. a) Elucidate the concept and significance of crossing over.  
or  
b) Discuss about construction of chromosome map through 2- point test cross and 3-point test cross.
12. a) Describe the enzymes and their role in DNA replication.  
or  
b) Elucidate the concept of Lac-operon.
13. a) Explain about molecular breeding.  
or  
b) Describe the concept of plant introduction and acclimatization.



SEE AUG'23

LSCT06/28-08-2023

**HUMAN VALUES AND PROFESSIONAL ETHICS**

No. of Pages: 1

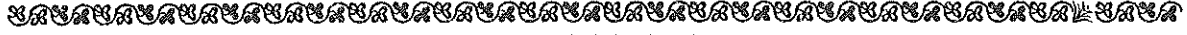
Time: 2Hrs

No. of Questions: 10

|          |  |
|----------|--|
| Roll No: |  |
|----------|--|

Max. Marks: 40M

Pass Min: 16M



**SECTION – A**

*Answer any TWO of the following:*

*2 X 5 = 10M*

1. What is the need for value education?
2. Explain the process of value education.
3. What is professional integrity?
4. Explain the foundational value “Trust”.

**SECTION – B**

*Answer any THREE of the following:*

*3 X 10 = 30M*

5. Explain the classification of value education.
6. What are the basic requirements to fulfil human aspirations of happiness and prosperity?
7. How do we differentiate between human beings on the basis of the body? Explain.
8. What is the need and importance of professional ethics?
9. Explain harmony in the family.
10. Explain the universal human order in society.

\*\*\*\*\*



SEE AUG 2023

22COMSDT04 / 28-08-2023

Advertising

No. of Pages: 01

Roll No:

Max. Marks: 35M

Time: 2 Hrs

No. of Questions: 09

Pass Min.: 14M

\*\*\*\*\*

Section A

Answer any THREE of the following:

3 x 5 = 15M

1. What are the features of advertising?
2. Write any four functions of advertising.
3. What are the elements in advertising message structure?
4. Explain the role of ASCI.
5. How to identify the target groups of an advertisement?

Section B

Answer any TWO of the following:

2 x 10 = 20M

6. Discuss the classification of advertising.
7. Discuss the role of Advertising Agencies Association of India.
8. Explain the functions of an advertising agency.
9. What are the prospects of an advertising agency in India.

\* \* \*





SEE AUG'23

22 BATCH

22CHESDT01/28-08-2023

FOOD ADULTERATION

No. of Pages: 1

Time: 2Hrs

No. of Questions: 10

Roll No:

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|--|

Max. Marks: 35M

Pass Min: 14M

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SECTION – A

Answer any **THREE** of the following:

3 X 5 = 15M

1. Explain the types of food adulteration.
2. What is cheap substitution in food adulteration?
3. Explain the adulteration through food additives.
4. What is the method of adulterants in Milk and Oil?
5. Write a note on processed food.
6. What are the challenges and short comings of FSSAI?

SECTION – B

Answer any **TWO** of the following:

2 X 10 = 20M

7. Define food adulteration.
Explain the general impacts of food adulteration on human health.
8. Write any three methods of detection of adulteration in grain, spices and condiments.
9. What are the methods of detecting adulterants in additives and sweetening agents?
10. Explain the different types of offenses and penalties for food adulteration.

No. of Pages: 01

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Balban.
2. Bhakti Movement.
3. The Religious Policy of Akbar.
4. Jahangir.
5. Art and Architecture of Mughals.
6. Ashta Pradhans.
7. Early settlements of Europeans in India.
8. Battle of Plassey.

Section B

Answer the following:

5 x 10 = 50M

9. a) Explain the administrative reforms of Allauddin Khilji.
or
b) Write about the administrative reforms of Muhammad-Bin-Tughlaq.
10. a) Write about the impact of Islam on Indian Society and culture.
or
b) Explain the general conditions of the Vijayanagar Empire.
11. a) Describe the administrative reforms of Shershah.
or
b) Shahjahan period was the Golden Age during Mughal rule in India. Discuss.
12. a) Write about the economy, society and cultural developments under the mughals.
or
b) Explain the administrative system of Shivaji.
13. a) Write about the Anglo-French struggle in Deccan.
or
b) How did the British Capture Bengal?

SEE AUG 2023

COMT21A / 29-08-2023

Financial Accounting

No. of Pages: 02

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Define depreciation. Write any three advantages of straight line method.
2. Explain the need of providing depreciation.
3. Write any five objectives of reserves.
4. State the parties of bills of exchange.
5. Explain different types of commissions in consignment.
6. Write about invoice price in consignment.
7. What are the features of joint venture?
8. What is memorandum joint venture account?

Section B

Answer the following:

5 x 10 = 50M

9. a) Write the objectives of providing depreciation and explain the causes of depreciation.

or

- b) On 1st January 2006, Suman Ltd. Purchased a machinery for Rs.1,16,000 and spent Rs.4,000 on its erection. On 1st July, 2006 an additional machinery costing Rs.40,000 was purchased. On 1st July, 2008 the machine purchased on 1-1-2006 was sold for Rs.57,200 and on the same date, a new machine was purchased at a cost of Rs.80,000.

Show the machinery account for the first four calendar years accounting to reducing balance method taking the rate of depreciation at 10% p.a.

10. a) Discuss various types of provision & reserve.

or

- b) A business concern decided to provide Rs.1,000 every year for the repairs and renewals of a machine used in the process of manufacture from the year 2011. In the first five years the amount spent on repairs was Rs.300, Rs.325, Rs.480, Rs.700, Rs.1,200. prepare a provision for repairs and renewals account for five years.

11. a) A define negotiable instruments and explain features of bills of exchange

or

- b) Balaram purchased goods worth Rs.4,800 on 1st April 2008 from Raghu and on the same date accepted a bill payable after two months. Three days later, Raghu endorsed to bill to Sitaram in payment of his debt.

On maturity, the bill was dishonoured by Balaram and Sitaram got it

Financial Accounting

bill for the balance, plus Rs.50 towards interest payable after 2 months. Raghu accepted the proposal and drew the bill on Balaram which was accepted by him. Before the maturity of the second bill, Balaram became bankrupt and only 50 paise in a rupee was received from his estate in full settlement of his debt. Record the above transactions in the Journals of Raghu.

12. a) Distinguish between joint venture and consignment.

or

b) On 1st September, 2012 Faquirchand of Kanpur consigned to Akbar of Aizawal 100 bales of cloth invoiced at Rs.60 each. The invoice price was made up of 20% above cost. The freight and other charges amount to Rs.310. Faquirchand also drew a bill on Akbar for Rs.3,000 and discounted the same with the bank for Rs.2,980. Akbar duly met the bill on the due date.

On 25th December, 2012 Akbar sent account sales together with the necessary remittance showing that 40 bales had realized Rs.60 each and 30 bales at Rs.70 each and that 30 bales remained unsold, out of these 20 bales were damaged due to faulty packing and that he estimated the selling price of damaged goods to be Rs.20 per bale. Akbar was entitled to a selling commission of 5%.

Show the consignment account in the books of Faquirchand. Also ascertain the final remittance made by Akbar.

13. a) Explain the methods of recording joint venture transactions.

or

b) A, B & C jointly undertake to construct a theatre building for popular entertainment Ltd., at a price of Rs.50,00,000 to be paid Rs.40,00,000 in cash by installments and Rs.10,00,000 in debentures of the Co. They agreed to share the profit or losses equally. They contribute A – Rs.6,00,000, B – Rs.7,50,000 and C – Rs.4,00,000. These amounts are deposited in a joint banking account. A gets the plan prepared and pays Rs.70,000 architects fees. B brings into the venture a concrete mixer of the value of Rs.2,50,000 and C brings into the venture a truck of the value of Rs.2,00,000. they buy a plant for Rs.2,40,000, material worth Rs.24,00,000 and paid wages Rs.19,50,000.

On completion of the venture A takes over the unused materials for Rs.1,40,000, B takes back the concrete mixer at a valuation of Rs.1,20,000 and C takes back the truck at Rs.80,000. The plant was sold for Rs.60,000. When the contract price fully received A took over the debentures at a valuation of Rs.8,00,000.

SEE AUG'23

MATT21B/29-08-2023

REAL ANALYSIS

No. of Pages: 2

Time: 3Hrs

No. of Questions: 13

Roll No:	
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Max. Marks: 75M

Pass Min: 30M



SECTION - A

Answer any FIVE of the following:

5 X 5 = 25M

1. State and prove Sandwich theorem.
2. Prove that every convergent sequence is Cauchy sequence.
3. Test for convergence $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n} + \sqrt{n+1}}$.
4. Prove that $f(x) = x^3$ is uniformly continuous on $[-2, 2]$.
5. Show that $\lim_{x \rightarrow a} \frac{|x-a|}{x-a}$ does not exist.
6. Find C of Cauchy's mean value theorem $f(x) = \sqrt{x}$, $g(x) = \frac{1}{\sqrt{x}}$ on $[a, b]$, $0 < a < b$.
7. Show that between any two real roots of $e^x \cos x = 1$ there exist at least one root of $e^x \sin x = 1$.
8. If $f(x) = 3x+1$ is integrable on $[1, 2]$ $\int_1^2 (3x+1)dx = \frac{11}{2}$.

SECTION - B

Answer the following:

5 X 10 = 50M

9. (a) A monotonic sequence is convergent if and only if it is bounded.
OR
(b) State and prove Cauchy's first theorem on limits.

10. (a) State and prove Cauchy's n^{th} root test.

OR

(b) State and prove Leibnitz's test.

11. (a) If f is continuous on $[a, b]$ and $f(a), f(b)$ have opposite signs then there exist $c \in [a, b]$ such that $f(c) = 0$.

OR

(b) Prove that $f(x) = |x| + |x-1|$ is continuous at $(0, 1)$.

12. (a) State and prove Cauchy's mean value theorem.

OR

(b) Using Lagrange's theorem, show that $\frac{v-u}{1+v^2} < \tan^{-1} v - \tan^{-1} u < \frac{v-u}{1+u^2}$, for $0 < u < v$

and hence deduce that $\frac{\pi}{4} + \frac{3}{25} < \tan^{-1} \frac{4}{3} < \frac{\pi}{4} + \frac{1}{6}$.

13. (a) Necessary and sufficient condition for R-integrability.

OR

(b) State and prove fundamental theorem of integral calculus.

BASICS OF VASCULAR PLANTS & PHYTOGEOGRAPHY

No. of Pages: 01

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

Draw diagrams wherever necessary:

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Write about vegetative reproduction in Lycopodium.
2. Describe the internal structure of Marsilea root.
3. Female cone of Cycas.
4. A brief account on cycloedeoidea.
5. Economic importance of cucurbitaceae.
6. Kew herbarium.
7. Economic importance of Poaceae.
8. Vegetation types in Andhra Pradesh.

Section B

Answer the following:

5 x 10 = 50M

9. a) Describe the sexual reproduction in Lycopodium.
or
b) Explain the stellar evolution in pteridophytes.
10. a) Describe the anatomy of Cycas leaflet. Add a note on xerophytic features of it.
or
b) Write briefly about geological time scale.
11. a) Explain Bentham and Hooker's system of classification.
or
b) Describe the vegetative & floral characters of Annonaceae.
12. a) Give an account of the family Asclepiadaceae.
or
b) Give an account of the family Euphorbiaceae & add a note on economic importance.
13. a) What is phytogeography? Explain the principles of phytogeography.
or
b) What is Endemism? Write in detail about endemism.

No. of Pages: 01

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following:

5 x 4 = 20M

1. a) Qutubuddin Aibak
or
b) Razia Sultana.
2. a) Ramanujacharya.
or
b) Market reforms of Alla-Ud-Din-Khilji.
3. a) Battle of Tallikota.
or
b) Second battle of panipat.
4. a) Nurjahan.
or
b) Astapradhans.
5. a) Bussy.
or
b) Battle of Plassey.

Section B

Answer the following:

5 x 10 = 50M

6. a) Write an essay about the administration reforms of Ala-Ud-Din-Khilji.
or
b) What are the reasons to call Md.Bin Tuglaq as a Mad ruler.
7. a) Write an essay on the Bhakti Movement of Northern India.
or
b) Describe the social, economic and religious conditions of the Vijayanagara Age.
8. a) Do you regard the regime of Shajahan as "Golden Age" in Mughal History.
or
b) Write about the religious policy of Akbar.
9. a) Estimate Shivaji as a great administrator.
or
b) Describe the administrative system of Akbar.
10. a) Give an account of Anglo-French rivalry in South India.
or

SEE AUG 2023

22COMT21 / 29-08-2023

Financial Accounting

No. of Pages: 03

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following questions:

5 x 4 = 20M

1. a) What is depreciation?
or
b) State the causes of depreciation.
2. a) Define reserve. State different types of reserves.
or
b) Distinguish between provisions and reserves.
3. a) Define a bill. Who are the parties to a bill?
or
b) Explain the features of bill.
4. a) What is proforma invoice?
or
b) Distinguish between consignment and sales.
5. a) Differences between partnership and joint venture.
or
b) Explain the features of joint venture.

Section B

Answer the following:

5 x 10 = 50M

6. a) Abhigna & Co., purchased a cold storage plant on January 1st, 2009 for Rs.1,05,000 and spent Rs.5,000 on its erection. The asset is expected to last for 4 years, after which its breakup value is estimated to be Rs.10,000. Find out the amount of depreciation to be charged every year and show how the plant account would appear for the 4 years assuming that it is sold away for Rs.8,500 at the end.
or
b) Ramya & Co., bought a machine for Rs.1,20,000 on 1-1-2015. They depreciated the same at 10% under the written down value method. On 1-1-2019 they wanted to change the method of depreciation from diminishing balance method to straight line method with retrospective effect without changing the rate. Show the asset account from 2015-2019.
7. a) From the following particulars, you are required to show
 - i) provision for doubtful debts account
 - ii) bad debts account and
 - iii) profit and loss account.

Financial Accounting

- b) From the following financial data, you are required to prepare:
- bad debts account
 - provision for bad debts account and
 - profit and loss account.

	<u>31-12-2017</u>	<u>31-12-2018</u>
Debtors	1,00,000	1,50,000
Provision for bad debts account(1-1-2017)	5,000	-----
Bad debts during the period	7,000	10,000
Maintain the provisions	4%	4%

8. a) On 1st January, 2019 Rakesh sold goods for Rs.1,000 to Suresh and drawn the bill for 2 months. Suresh accepted the bill. Rakesh purchased goods for Rs.1,000 from Mahesh and he endorsed the bill receivable against the debt due to him. The bill was honoured on due date. Write Journal entries in the books of Rakesh, Suresh and Mahesh.

or

- b) Johnson sold goods for Rs.800 on 1-4-2019 to Isaac Raj and drawn the bill for 4 months. The bill was accepted. Isaac Raj could not honour the bill before due date and hence approached Johnson for renewing the bill. The old bill was cancelled and a new bill was drawn for Rs.850 along with the interest for 3 months. Johnson accepted the bill and the bill was honoured on due date. Write entries in the books of both the parties.

9. a) M/S Trinethra & Co. of Kalkata consigned on 15-3-2019, 45 cases of glassware costing Rs.82,470 to Anand & Co. of Tirupathi for sale on commission @5% on gross sale proceeds. M/S Trinethra & Co. paid Rs.1,078 towards freight and carriage. The goods arrived at Tirupathi on 20-3-2019 and Anand & Co. paid clearing charges Rs.470, sundry charges Rs.118, carriage Rs.204 and godown charges Rs.180. The goods were sold by Anand & Co. on under
- 15 cases @Rs.2,006 per case
 - 22 cases @Rs.2,100 per case
 - the remainder for Rs.20,000.
- On 21-6-2019 Anand & Co. sent a draft for Rs.20,000 to M/S Trinetra & Co. on account. On 1-7-2019 Anand & Co. forwarded an account sales together with a bill of exchange for the balance. Show important ledger accounts in the books of M/S Trinethre & Co.

or

- b) Ramu of Delhi consigned 300 bales of cloth at Rs.2,000 per bale to Somu of Chennai, paying freight Rs.4,000 and other expenses Rs.2,000. Somu sold 250 bales @Rs.2,500 per bale on credit and 25 bales @Rs.2,200 per bale for cash. Somu spent for freight and octroi Rs.3,000 and other expenses

Financial Accounting

one customer to whom credit of 40 days was allowed, paid only Rs.4,800 as against a total amount of Rs.5,000 due from him, in full settlement of his account. Other customers paid the amount on due dates.

You are required to show ledger accounts in the books of Ramu of Delhi and show the calculation of valuation of stock.

10. a) A and B entered into joint venture. A agree to bring capital in cash. Accordingly a joint bank account is opened by 'A' for a sum of Rs.1,60,000. B buys goods worth Rs.1,00,000 as part of his share of capital. Further goods worth Rs.2,36,000 were purchased from 'C' paying Rs.1,20,000 balance by a promissory note signed by A and B.

The goods were sent to Chennai for sale. Expenses totalling were incurred in sending the goods. Part of goods was damaged and a sum Rs.50,000 was recovered from the insurance company. The balance goods were sold for Rs.4,40,000.

Prepare joint venture account, joint bank account and accounts of A and B.

or

- b) X and Y enter into joint venture to underwrite public issue of ABC Ltd. They agree to guarantee the subscription at par on 1,00,000 shares of Rs.10 each of XYZ Ltd. and sharing the profits and losses in the ratio of 2:3. The terms with the company are 4.5% commission payable in cash and 6% on fully paid shares of the company. They agreed to pay expenses in connection with the issue of shares. The expenses incurred are advertisement Rs.5,000, printing and stationery Rs.2,000 and postage Rs.600. All expenses are paid by X.

The public subscribed to 88,000 shares only. The remaining shares under the agreement were duly taken by X and Y who provided the necessary cash equally. The commission is received in cash and is shared by the co-venturers in the ratio of 4:5. The entire holding of the joint venture is there sold in the market through broken as follows: 25% at a price of Rs.9 per share, 50% at a price of Rs.8.75 per share, 15% at a price of Rs.8.50 per share and the remaining 10% in taking over by X and Y equally at an agreed price of Rs.8 per share.

Prepare the joint venture account, joint bank account, share account and accounts of X and Y showing the final settlement.

SEE AUG'23

REAL ANALYSIS

No. of Pages: 2

Roll No:

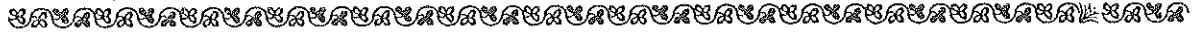
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Max. Marks: 70M

Time: 3Hrs

Pass Min: 28M

No. of Questions: 10

SECTION - A*Answer the following:*

5 X 4 = 20M

1. (a) Prove that a sequence can have atmost one limit.

OR

(b) Prove that $\lim_{n \rightarrow \infty} \frac{n^3 - 2n + 1}{n^3 + 2n^2 - 1} = 1$.

2. (a) Test for convergence of
- $\sum_{n=1}^{\infty} \frac{2n-1}{n(n+1)(n+2)}$
- .

OR

(b) Test for convergence of $\sum_{n=1}^{\infty} \left(1 + \frac{1}{n}\right)^{-n^2}$.

3. (a) Prove that
- $\lim_{x \rightarrow 0} \frac{e^{1/x} - 1}{e^{1/x} + 1}$
- does not exist.

OR

(b) Determine the constants a,b so that the function $f(x) = 2x+1$ if $x \leq 1$, $f(x) = ax^2 + b$, if $1 < x < 3$, $f(x) = 5x + 2a$ if $x \geq 3$ is continuous every where.

4. (a) Find C of Rolle's theorem for
- $f(x) = x^3 - 6x^2 + 11x - 6$
- in
- $[1,3]$
- .

OR

(b) Find C of Cauchy's mean value theorem for $f(x) = x^2$, $g(x) = x^3$ in $[1,2]$.

5. (a) If
- $f(x) = x^2$
- on
- $[0,1]$
- and
- $P = \left\{0, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1\right\}$
- compute
- $L(p, f)$
- and
- $U(p, f)$
- .

OR

(b) Prove that every continuous function is Riemann integrable.

SEE AUG'23

22 BATCH
22MATT21/29-08-2023

SECTION – B

Answer the following:

5 X 10 = 50M

6. (a) If $S_n = \frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \dots + \frac{1}{n(n+1)}$, then prove that $\{S_n\}$ is convergent.

OR

(b) State and prove Cauchy's first theorem on limits.

7. (a) State and prove Cauchy's n^{th} root test.

OR

(b) State and prove limit comparison test.

8. (a) If $f : [a, b] \rightarrow R$ is continuous on $[a, b]$ then f is bounded on $[a, b]$.

OR

(b) Examine for continuity of the function $f(x) = |x| + |x - 1|$ at $x = 0, 1$.

9. (a) State and prove Rolle's theorem.

OR

(b) Prove that $\frac{\pi}{6} + \frac{\sqrt{3}}{15} < \sin^{-1} 0.6 < \frac{\pi}{6} + \frac{1}{8}$.

10. (a) Prove that every monotonic function is Riemann integrable.

OR

(b) State and prove fundamental theorem of integral calculus.

BASICS OF VASCULAR PLANTS & PHYTOGEOGRAPHY

No. of Pages: 02

Roll No:

Max. Marks:

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28

Section A

Answer the following:

5 x 4 = 20

1. a) What is sporocarp? Describe the structure of Marsilea sporocarp.
or
b) Explain the classification of pteridophyta proposed by Smith (1952) divisions.
2. a) Write critical notes on Geological time scale.
or
b) Describe the structure of Gnetum ovule.
3. a) Write short notes on rules of nomenclature.
or
b) Define the term herbarium. Explain concept of digital herbaria.
4. a) How will you differentiate the following from each other, Poaceae
Arecaceae?
or
b) Write short note on angiosperm phylogeny group (APG IV).
5. a) Define the term endemism. Explain types & causes of endemism.
or
b) Write short note on principles of phytogeography.

Section B

Answer the following:

5 x 10 = 50

6. a) Explain in detail stellar evolution in pteridophyta.
or
b) With the help of labelled diagrams give an account of the prothallium of Lycopodium.
7. a) What are gymnosperms? Discuss the general characteristics of gymnosperms.
or
b) With self-explanatory diagram explain about leaflet anatomy of Cycas.
8. a) What are the main features of the system of classification proposed by Bentham and Hooker? Discuss its merits and demerits.
or
b) Write what is unique in the following:
 - i) Floral characters of an Annonaceae
 - ii) Tendrils in Cucurbitaceae

BASICS OF VASCULAR PLANTS & PHYTOGEOGRAPHY

9. a) Discuss the special features of the following:
- i) Reproductive structures in Asclepiadaceae
 - ii) Pollination in Asteraceae.
- or
- b) Describe the floral and diagnostic characters of Euphorbiaceae. Mention three economic important plants and their use.
10. a) Give a general account of phyto geographical regions of India.
- or
- b) Discuss the various vegetation types in Andhra Pradesh.

* * *

SEE AUG 2023

HIST43 / 30-08-2023

History of Modern World (from 15th century A.D to 1945 A.D.)

No. of Pages: 01

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. Bill of Rights.
2. Martin Luther.
3. Boaston Tea Party.
4. Constitute assembly of France.
5. III Napoleon.
6. Mussolini.
7. Karl marks.
8. Wilson 14 points.

Section B

Answer the following:

5 x 10 = 50M

9. a) What are the functions that causes for the transfer the medieval period to modern period.
or
b) Explain the chief characteristics of Glorious revolution in England.
10. a) Describe the causes for the American Revolution.
or
b) Explain the contribution of French philosopher to French Revolution.
11. a) Explain the different stages of unification of Italy.
or
b) Critically examine the role Bismark in Unification of Germany.
12. a) What are the causes for the Russian Revolution?
or
b) What are the main provisions of Paris peace conference?
13. a) Explain the role of Adolf Hitler in Nazism.
or
b) Describe the failure of UNO.

COST AND MANAGEMENT ACCOUNTING

No. of Pages: 03

Roll No:

Max. Marks: 75M

Time: 3 Hrs

No. of Questions: 13

Pass Min.: 30M

Section A

Answer any FIVE of the following:

5 x 5 = 25M

1. What do you understand by management accounting?
2. State three important functions of cost accounting.
3. What is meant by direct materials?
4. What is meant by margin of safety?
5. Distinguish between marginal costing and absorption costing.
6. What is meant by comparative statement?
7. What is labour turnover?
8. What are the objectives of cash flow statement?

Section B

Answer the following:

5 x 10 = 50M

9. a) Differentiate between cost accounting and management accounting.

or

- b) Calculate cost of production from the following information.

	Rs.
Raw material purchased	42,500
Freight paid	5,000
Labour charges	12,500
Direct expenses	10,000

Factory over head 80% of direct labour charges.

Administrative overheads 10% of workcost.

	Opening	Closing
Raw materials	8,000	10,000
Work in progress	7,500	9,000

10. a) Discuss about various wage incentive plans.

or

- b) The following transactions occur in the purchases and issue of a material.

Jan 2	Purchases 4,000 units @ 4 per unit
20	Purchases 500 units @ 5 per unit
Feb 5	Issued 2,000 units
10	Purchased 6,000 units @ 6 per unit
12	Issued 4,000 units
Mar 2	Issued 1,000 units
5	Issued 2,000 units
15	Purchased 4,500 units @ 5.50 per unit

From the above prepare the stores ledger account, using FIFO method.

Contd.....(2)

COST AND MANAGEMENT ACCOUNTING

11. a) What is meant by Break Even analysis? Explain its advantages and limitations.

or

b)

i) BEP.

ii) Sales to earn a profit of Rs.1,00,000

iii) Margin of safety where sales are Rs.10,00,000 from the following information

Total sales Rs.6,00,000

Total variable costs Rs.4,00,000

Total fixed costs Rs.50,000

12. a) Explain the need and limitations of financial statement analysis.

or

- b) From the following information, prepare a comparative balance sheet.

	31 st March 2020	31 st March 2021
Equity share capital	4,00,000	6,00,000
Debentures	2,00,000	3,25,000
Sundry creditors	2,55,000	1,17,000
Bank overdraft	7,000	10,000
Total liabilities & capital	8,62,000	10,52,000
Plant & machinery	1,00,000	2,00,000
Land & building	3,60,000	5,40,000
Investments	2,70,000	1,70,000
Sundry debtors	1,00,000	88,000
Cash in hand	32,000	54,000
Total assets	8,62,000	10,52,000

13. a) What are the differences between cash flow and funds flow statements.

or

- b) From the following balance sheet of Sumalatha Ltd. prepare funds flow statement.

Liabilities	2007	2008
Share capital	6,00,000	6,00,000
P & L a/c	6,92,000	8,64,000
Creditors	4,13,000	6,27,000
Bills payable	2,26,000	3,14,000
Loan from bank	1,00,000	2,35,000
	20,31,000	26,40,000

SEE-AUGUST-2023

COMT45 / 30-08-2023

COST AND MANAGEMENT ACCOUNTING

Assets	2007	2008
Cash	53,000	31,000
Investments	87,000	----
Debtors	3,46,000	5,28,000
Stock	4,32,000	6,83,000
Net fixed assets	11,13,000	13,98,000
	20,31,000	26,40,000

Depreciation Rs.1,89,000 was written off for 2008 assets.

* * *

No. of Pages: 02

Roll No:

Max. Marks:

Time: 3 Hrs

No. of Questions: 14

Pass Min.: 30

Section A

Answer the following:

5 x 10 =

1. a) State Gauss's law in electrostatics. Apply it to find the electric intensity due to uniformly charged non conducting solid sphere.
Or
- b) Define the terms D , E and P . Obtain the relation between D , E and P and derive the relation between dielectric constant and susceptibility.
2. a) Explain Hall effect. Derive an expression for Hall coefficient.
Or
- b) State Faraday's laws and Lenz's law. Derive the expression for the self inductance of a solenoid.
3. a) Explain LCR series resonance circuit with necessary theory and derive the resonant frequency of a circuit.
Or
- b) What is pointing vector? Derive expression for pointing vector from Maxwell equations.
4. a) Explain the characteristics of Zener diode, and explain the use of Zener diode as voltage regulator.
Or
- b) Explain the input and output characteristics of NPN transistor in common emitter configuration.
5. a) State and prove Demorgan's theorem.
Or
- b) Describe the working of Half adder and full adder with circuits and draw their truth tables.

Section B

Answer any THREE of the following:

3 x 5 = 15

6. Explain briefly equipotential surfaces.
7. State and explain Biot and Savart law.
8. Derive an expression for power in alternating current circuits.
9. Draw the CB, CE and CC configurations of a transistor.
10. Prove that NOR gate is a universal gate.

Section C

Answer any TWO of the following:

2 x 5 = 10M

11. A solenoid of length 50 cm has 1000 turns wound on it. Calculate the magnetic induction at the middle point of its axis, when a current of 2 A is passed through it. ($\mu_0 = 4\pi \times 10^{-7} \text{ H/m}$)
12. In a series LCR circuit $R = 100\Omega$, $L = 0.5\text{H}$ and $C = 40\mu\text{f}$. Calculate the resonant frequency.
13. For a transistor $\beta = 30$ and $I_B = 40\mu\text{A}$. Find the value of I_E .
14. Convert the decimal number 100 into binary number system.

* * *

SEE AUG'23

STAT41B/30-08-2023

SAMPLING TECHNIQUES AND DESIGN OF EXPERIMENTS

No. of Pages: 1

Roll No: []

Max. Marks: 75M

Time: 3Hrs

Pass Min: 30M

No. of Questions: 13



SECTION - A

Answer any FIVE of the following:

5 X 5 = 25M

- 1. Elaborate 'sample' and 'sampling' with example.
2. Explain the procedure to select a simple random sample.
3. Write the advantages of stratified random sampling.
4. Define 'ANOVA' and give its assumptions.
5. Elucidate 'Block', 'Plot' and 'Experiment'.
6. Give the layout of a gives 5 x 5 LSD.
7. Define 'Contrast' and 'Orthogonal contrast'.
8. Explain the notations of 'systematic sampling'.

SECTION - B

Answer the following:

5 X 10 = 50M

- 9. (a) Differentiate sample survey and complete enumeration.

OR

(b) Show that in SRSWOR, v(y_n) = [(N-n)/Nn] S^2.

- 10. (a) Explain the types of allocations to draw the number of units from each stratum, along with their variances.

OR

(b) For a population with linear trend, prove that v(y_st) <= v(y_sys) <= v(y_n)_R.

- 11. (a) Explain the analysis for a two-way classified data.

OR

(b) Four treatments A,B,C and D are applied to 20 animals and the observations are observed on the weight gain of animals. Analyse the data and give your conclusion regarding the weights of animals.

Table with 7 columns: Treatments, and Gain in weight (6 sub-columns). Rows A, B, C, D.

- 12. (a) Explain the analysis of a Latin square design with a single missing plot technique.

OR

(b) Analyse the given data and give your conclusion at 5% level.

Block

Table with 4 columns: Block, A, B, C. Rows I, II, III, IV.

- 13. (a) Explain a 2^2-factorial design.

SEE AUG'23

ZOOT41/30-08-2023

EMBRYOLOGY ANIMAL PHYSIOLOGY AND ECOLOGY

No. of Pages: 1

Roll No:

Max. Marks: 75M

Time: 3Hrs

Pass Min: 30M

No. of Questions: 13

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Note: Draw neat labelled diagrams wherever necessary.

SECTION – A

Answer any FIVE of the following:

5 X 5 = 25M

1. Describe the process of Oogenesis.
2. Explain the origin and significance of yolk sac.
3. Analyze the process of digestion in stomach.
4. Explain the process of transportation of CO<sub>2</sub>.
5. Discuss the function of pancreas as a dual gland.
6. Justify the significance of pressure as an ecological factor.
7. Define population density. List out the methods of its estimation.
8. Differentiate between ecological habitat and niche with suitable examples.

SECTION – B

Answer the following:

5 X 10 = 50M

9. (a) Describe the process of gastrulation in frog.  
OR  
(b) Discus different types of placenta in mammals.
10. (a) Describe the structure and functioning of mammalian heart.  
OR  
(b) Illustrate the structure of nephron in mammals.
11. (a) Describe the structure and functions of hormones of pituitary gland.  
OR  
(b) Elaborate the ultra structure of a muscle fibre.
12. (a) Explain prey-predator relationship with suitable examples.  
OR  
(b) What are biogeochemical cycles? Explain phosphorous cycle.
13. (a) Explain the physical features and faunal peculiarities of oriental region.  
OR  
(b) How do animals survive in the desert?

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No. of Pages: 1.

Roll No:

Max. Marks: 75M

Time: 3Hrs

Pass Min: 30M

No. of Questions: 13



*Note: Draw neat labelled diagrams wherever necessary.*

SECTION A

*Answer any FIVE of the following:*

5 x 5 = 25

1. State the factors affecting energy partitioning.
2. Explain the significance of essential amino acids in fish feed.
3. Differentiate between FCE and FCR.
4. Feed conversion efficiency.
5. Mention the types of feed damage.
6. Explain frequency of feeding.
7. Analyse the role of antioxidants in the fish nutrition.
8. Explain the importance of natural feeds.

SECTION B

*Answer the following:*

5 x 10 = 50M

9. a) Explain the nutritional requirements of cultured fish.  
Or  
b) Analyse the effect of ration on growth and determination of feeding rate.
10. a) Give an account of different forms of fish feed.  
Or  
b) Explain various feeding devices and methods.
11. a) Detail various steps involved in feed preparation.  
Or  
b) Give an account of various feed ingredients and their selection.
12. a) List out various feed attractants and stimulants used in aqua feeds.  
Or  
b) Write an essay on functional feeds in shrimp farming.
13. a) Enumerate various diseases caused due to protein and vitamin deficiency in cultivable fish.  
Or  
b) Explain the importance of supplementary feed in Aquaculture.



SEE AUG'23

22 Batch

22COMSDT05/30-08-202

Retailing

No. of Pages: 1

Roll No:

|  |
|--|
|  |
|--|

Max. Marks: 35M

Time: 2Hrs

Pass Min: 14M

No. of Questions: 10



SECTION – A

*Answer any Three of the following:*

3 X 5 = 15

1. Explain the types of retailing.
2. Define retailing.
3. What is meant by store location?
4. Write about stores design.
5. Define human resources in retailing.
6. What is meant by customer care?

SECTION – B

*Answer any Two of the following:*

2 X 10 = 20M

7. Explain the factors influencing the growth of retailing in India.
8. Elaborate the role of retailing.
9. Elucidate the types of retail outlets.
10. Explain the methods of enhancing customer loyalty and sales promotion.

\*\*\*\*\*



22 Batch

SEE AUG'23

22ZOOSDT01/30-08-2023

POULTRY FARMING

No. of Pages: 1

Roll No:

Max. Marks: 35M

Time: 2Hrs

Pass Min: 14M

No. of Questions: 9

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Draw neat labelled diagrams wherever necessary

SECTION – A

Answer any Three of the following:

3 X 5 = 15

1. Explain the present scenario of poultry industry in India.
2. What are the broilers? Explain.
3. Write any two fungal diseases in poultry.
4. Write about vaccination programme.
5. Discuss the concept of Sexing of chick.

SECTION – B

Answer any Two of the following:

2 X 10 = 20M

6. Write about management of chick and growers.
7. Give an account of bacterial diseases, symptoms and control measures in poultry.
8. Write an essay on viral diseases of poultry.
9. Discuss the process of selection, handling and hatching of eggs.

SEE AUG'23

SDCPOLT01/30-08-2023

Public Relations

No. of Pages: 1

Time: 2Hrs

No. of Questions: 9

Roll No:	
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Max. Marks: 40M

Pass Min: 16M



SECTION – A

Answer any Two of the following:

2 X 5 = 10M

1. Define public relation.
2. Explain about NGOs.
3. Write about propaganda.
4. Explain any five ethics of public relation.

SECTION – B

Answer any Three of the following:

3 X 10 = 30M

5. Explain the nature and scope of public relations.
6. What is the media revolution?
7. Explain the promotion and corporate marketing services.
8. What is web casts?
9. What are the differences between public relation and mass media?

SEE AUG'23

SDCMGTT01=SDCCOMT03/30-08-2023

ONLINE BUSINESS

No. of Pages: 1

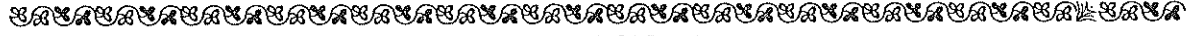
Time: 2Hrs

No. of Questions: 11

Roll No:	
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Max. Marks: 40M

Pass Min: 16M



SECTION – A

Answer any FIVE of the following:

5 X 4 = 20M

1. Differentiate e-commerce and online business.
2. Discuss the challenges in online business.
3. What is the role of demand aggregation strategies in online business?
4. Explain e-logistics and supply chain management in online business.
5. Discuss security issues in online business.
6. What is cryptography? Discuss its role in secured online business transactions.
7. Discuss the impact of online business on traditional business models.
8. Summarize advantages of online business.

SECTION – B

Answer any TWO of the following:

2 X 10 = 20M

9. Explain characteristics of online business.
10. Discuss e-customer relationship management in online business.
11. Explain online business models.

SEE AUG'23

SDCPHYT02/30-08-2023

SOLAR ENERGY

No. of Pages: 1

Roll No:

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Max. Marks: 40M

Time: 2Hrs

Pass Min: 16M

No. of Questions: 10



SECTION – A

Answer any TWO of the following:

2 X 5 = 10M

1. Discuss Sun as a source of energy.
2. Define solar energy and its importance.
3. Explain the principle of conversion of solar radiation into heat.
4. Explain different types of solar cells.

SECTION – B

Answer any THREE of the following:

3 X 10 = 30M

5. Define solar radiation. Explain the measurement of solar radiation using pyr heliometer.
6. Explain the measurement of solar radiation using pyranometer.
7. Explain the construction and working of flat plate collectors and concentration collectors.
8. Explain solar thermal power plant.
9. Define photo voltaic effect. Explain solar photo voltaic cell and its working principle.
10. Explain the series and parallel connections of solar cells.

SEE AUG 2023

22POLT21 / 31-08-2023

Basic Organs of the Government

No. of Pages: 01

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following questions:

5 x 4 = 20M

1. a) Explain the merits of the written Constitution.
or
b) Classification of the Constitution.
2. a) Explain the merits of the Bicameral Legislature.
or
b) Judicial powers.
3. a) Demerits of Federal Government.
or
b) Features of Parliamentary Government.
4. a) Methods of Direct Democracy.
or
b) Features of Indirect Democracy.
5. a) Functions of Political Parties.
or
b) Pressure groups.

Section B

Answer the following:

5 x 10 = 50M

6. a) Explain the Origin Evaluation of the Constitution.
or
b) Write about the Rigid and Flexible Constitution.
7. a) Critically examine theory of separation of powers.
or
b) Explain the powers and functions of Legislature.
8. a) Explain about merits and demerits of unitary forms of Government.
or
b) Describe about merits and demerits of Presidential forms of Government.
9. a) Define the Democracy and explain the meaning and significance.
or
b) Explain the essential conditions of the success of Democracy.
10. a) Explain the functions of National parties.
or

BANKING THEORY & PRACTICE

No. of Pages: 01

Roll No:

Max. Marks:

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 20

Section A

Answer the following:

5 x 4 = 20

1. a) Define commercial bank.
or
b) Indigenous banking
2. a) Banker Vs customer.
or
b) Payment Gateways.
3. a) Reserve Bank of India.
or
b) E-Banking.
4. a) Letter of Credit.
or
b) Mobile banking.
5. a) SIDBI
or
b) Holder for value.

Section B

Answer the following:

5 x 10 = 50

6. a) Write the functions of Central Bank.
or
b) Role of Commercial Bank in economic development.
7. a) What are the merits and demerits of unit banking?
or
b) Explain the innovations in banking.
8. a) What is RRB? Explain objectives and functions.
or
b) Explain the features and structure of cooperative banking.
9. a) Explain the special relationship between banker and customer.
or
b) Explain various types of customer.
10. a) Discuss the statutory protection to collecting banker.
or
b) Explain the responsibilities of paying banker.

SEE AUG 2023

22CABT24 / 31-08-2023

E-Commerce & Web designing

No. of Pages: 01

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following questions:

5 x 4 = 20M

1. a) Benefits of B2B sellers.
or
b) Characteristics of E – Commerce.
2. a) Characteristics of E – SCM.
or
b) Explain internet marketing.
3. a) Process of E – Payment.
or
b) Concept of E – cash.
4. a) Illustrate image & marquee tags with examples.
or
b) Define HTML 2 write the structure of HTML.
5. a) Illustrate adding video from you tube to the website using WIX editor.
or
b) Explain customizing menu design in a site menu by using WIX editor.

Section B

Answer the following:

5 x 10 = 50M

6. a) Write the advantages and disadvantages of E – Commerce.
or
b) What are the key components of business models over internet?
7. a) Differentiate the traditional marketing and E – Marketing.
or
b) What are the advantages of E – Logistics?
8. a) Discuss various payment systems with pros and cons of each of them.
or
b) What are the benefits of E – Payment systems?
9. a) What are tables in HTML? How tables help to organize data effectively?
Explain with examples.
or
b) What is HTML? Discuss the role of markup languages in website development.
10. a) Illustrate cropping and editing gallery images and adding a link to button

Programming in C

No. of Pages: 01

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following questions:

5 x 4 = 20M

1. a) Describe the characteristics of computer.
or
b) Explain generations of programming languages.
2. a) Write steps to compile and executing a C – Program.
or
b) Explain the different types of operators available in C.
3. a) Explain steps of declaration of an array.
or
b) Explain the operations on an array.
4. a) Define function. How to declare a function in C?
or
b) Explain briefly about recursive functions.
5. a) Describe the error handling during the file operations.
or
b) How to allocate the memory in C programming? Explain.

Section B

Answer the following:

5 x 10 = 50M

6. a) With neat diagram explain block diagram of a computer.
or
b) Define algorithm and explain key features of algorithm with example and syntax.
7. a) Describe data types in C.*
or
b) Explain control statements in C.
8. a) Explain briefly about an array in C.
or
b) Explain multi – dimensional array with an example program.
9. a) What is structure? Explain the steps of union inside structure.
or
b) Explain enumerated data types with an example program.
10. a) Explain briefly about pointers.
or
b) Explain the following:

SEE AUG 2023

22PHYT21 / 31-08-2023

Wave Optics

No. of Pages: 02

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

Section A

Answer the following questions:

5 x 10 = 50M

1. a) Derive the expression for fringe width in biprism experiment. Discuss the conditions for interference of light.
or
b) Describe the construction of a Michelson's interferometer and explain its working.
2. a) Describe the Fraunhofer diffraction due to double slit and derive the resultant intensity.
or
b) Explain the term 'half period zone'. Calculate the area of the Fresnel zone and show that the amplitude due to complete wave front at a point is just half that due to first half period zone acting alone.
3. a) What do you understand by double refraction? Give Huygen's construction for the direction and velocities of the ordinary and extraordinary rays in a uniaxial crystal.
or
b) How are linearly, circularly and elliptically polarized light produced and analysed.
4. a) What is chromatic aberration? Find an expression for longitudinal chromatic aberration for an object at infinity.
or
b) Define fibre optics. Explain the principles of fibre communication.
5. a) Explain the construction and working of He - Ne laser with a neat diagram.
or
b) Explain the basic principles of holography and write the applications of holography.

Section B

Answer the following:

5 x 4 = 20M

6. a) Explain any one method of minimizing spherical aberration.
or
b) What are the advantages of fibre optic communication?
7. a) Explain about spontaneous emission.

Wave Optics

8. a) Explain the Cosine law.
or
b) Explain the difference between Fresnel and Fraunhofer class of diffraction phenomena.
9. a) In Newton's ring experiment, the diameter of the 4th and 12th dark rings are 0.4 cm and 0.7 respectively. Find the diameters of 20th dark ring.
or
b) The pupil of the eye is 3mm in diameter. Find the angular resolution of the eye for light of wave length 5461 AU.
10. a) Find the radii of the first and hundredth circles on a zone plate behaving like a convex lens of focal length 50cm. ($\lambda = 5000 \text{ \AA}$).
or
b) Calculate the specific rotation if the plane of polarization is turned through 26.4° , traversing 20 cm length of 20% sugar solution.

* * *

22 BATCH

22ZOOT21/31-08-2023

SEE AUG'23

ANIMAL DIVERSITY- BIOLOGY OF CHORDATES

No. of Pages: 1

Roll No:

Max. Marks: 70M

Time: 3Hrs

Pass Min: 28M

No. of Questions: 10

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Note: Draw neat labelled diagrams wherever necessary.

SECTION – A

Answer the following:

5 X 4 = 20M

1. (a) Enumerate the general characters of urochordata.  
OR  
(b) Describe the structure of Herdmania.
2. (a) Explain the types of migration in fishes with suitable examples.  
OR  
(b) Describe the structure of heart in Scoliodon.
3. (a) Explain parental care in amphibians.  
OR  
(b) Describe the structure of brain in frog.
4. (a) Describe digestive system of Calotes.  
OR  
(b) Distinguish between poisonous and non-poisonous snakes.
5. (a) Describe airsacs of Pigeon.  
OR  
(b) Explain significance of migration in birds.

SECTION – B

Answer the following:

5 X 10 = 50

6. (a) Compare Petromyzon and Myxine.  
OR  
(b) Describe the life history of Herdmania.
7. (a) Describe Cranial nerves in Scoliodon.  
OR  
(b) Write an essay on the accessory respiratory organs in fishes.
8. (a) Write about South Indian amphibians.  
OR  
(b) Describe types of respiratory system of Rana.
9. (a) Explain South Indian Chelonians.  
OR  
(b) Describe Urinogenital system of Calotes.
10. (a) List out the flight adaptations in birds.  
OR  
(b) Explain dentition in mammals.

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No. of Pages: 01

Roll No:

Max. Marks: 70M

Time: 3 Hrs

No. of Questions: 10

Pass Min.: 28M

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Section A

Answer the following questions:

5 x 4 = 20M

1. a) Explain buoyancy in fishes.  
or  
b) Explain the structure and function of electric organs in fishes.
2. a) List out the various methods of growth rate measurement in fishes.  
or  
b) Plankton is natural fish food – Justify.
3. a) Explain the different breeding habits in fishes.  
or  
b) What is bundh breeding?
4. a) Explain embryonic and larval development in shrimp.  
or  
b) Explain ovo – viviparity in fishes.
5. a) Describe the structure and function of androgenic gland.  
or  
b) Explain the significance of Y – organ and neuro secretory cells.

Section B

Answer the following:

5 x 10 = 50M

6. a) Mention any five finfish and shell fish of commercial importance.  
or  
b) Give an account of varicons sense organs of fishes.
7. a) Explain the structural modification of fish in relation to feeding habits.  
or  
b) Explain the different factors that determine the longevity of fishes.
8. a) Explain the process of hypophysation and its significance in fishes.  
or  
b) Explain the breeding technique in shrimp.
9. a) Write an essay on parental care in fishes.  
or  
b) Explain the environmental factors that affect reproduction and development of fish.
10. a) Describe the process of moulting in crustaceans.  
or  
b) Describe the endocrine system in fishes.



22 BATCH

22STAT21/31-08-2023

SEE AUG'23

PROBABILITY DISTRIBUTION AND STATISTICAL METHODS

No. of Pages: 2

Time: 3Hrs

No. of Questions: 10

Roll No:

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|  |
|--|

Max. Marks: 70M

Pass Min: 28M

SECTION – A

Answer the following:

5 X 4 = 20M

1. (a) The mean and variance of binomial distribution are 16 and 8 respectively. Find (i)  $P(X = 1)$  (ii)  $P(X \geq 2)$ .

OR

- (b) A company producing 3% of defective items manufactured from the production process. Find the probability that a sample of 100 items contain (i) no defective item (ii) at least two defective items.

2. (a) Find mean and variance of exponential distribution.

OR

- (b) Find mean and variance of rectangular distribution.

3. (a) Define consistency of data and write conditions for the consistency of data for 2 attributes.

OR

- (b) Show that  $Q = \frac{2Y}{1+Y^2}$  where  $Q$  = Yule's coefficient of association of attributes,  $Y$  = coefficients of colligation.

4. (a) Define correlation and types of correlation.

OR

- (b) Derive the rank correlation coefficient.

5. (a) Explain fitting of straight line to a set of n-observations.

OR

- (b) Define regression. State the properties of regression coefficients.

SECTION – B

Answer the following:

5 X 10 = 50M

6. (a) Find the moment generating function (mgf) of binomial distribution and mean and variance.

OR

- (b) Find cumulant generating function of Poisson distribution.

SEE AUG'23

22 BATCH  
22STAT21/31-08-2023

7. (a) State the properties of normal distribution.

OR

(b) Let  $X$  be normally distributed with mean 8 and S.D 4 find (i)  $P(5 \leq x \leq 10)$   
(ii)  $P(x \geq 15)$  (iii)  $P(x \leq 5)$ .

8. (a) Explain various measures of association of attributes.

OR

(b) Given that  $N = 23713$ ,  $(A) = 1618$ ,  $(B) = 2015$ ,  $(C) = 770$ ,  $(AB) = 587$ ,  $(AC) = 428$ ,  
 $(BC) = 335$ ,  $(ABC) = 156$  then find the remaining class frequencies.

9. (a) Explain Scatter diagram method for measuring different types of correlation.

OR

(b) Find rank correlation coefficient for the following data:

|    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|
| X: | 68 | 64 | 75 | 50 | 64 | 80 | 75 | 40 | 55 | 64 |
| Y: | 62 | 58 | 68 | 45 | 81 | 60 | 68 | 48 | 50 | 70 |

10. (a) Derive the two regression lines.

OR

(b) Find the regression lines for the following data:

|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| X: | 65 | 66 | 67 | 67 | 68 | 69 | 70 | 72 |
| Y: | 67 | 68 | 65 | 68 | 72 | 72 | 69 | 71 |

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