

St. Joseph's Degree & PG College

(Autonomous)

Affiliated to Osmania University

Re-Accredited by NAAC with "B++" Grade

King Koti Main Road, Hyderabad – 500029

End Semester Examinations July 2021 (April 2021 Cycle)

B.Com/B.Sc/ B.A/B.B.A-I Year

Semester - II

Subject: Environmental Studies

Subject ID : EVS2UGA21

Date :12-07-2021

Max.Marks:60

Time: 2hrs 30minutes

I. Answer any FIVE of the following in about 150 words

4 X 5 = 20 Marks

1. Ecological Footprint
2. Environmental Act
3. Green House gases
4. Radio activity
5. Fire safety
6. In-situ Conservation
7. Nuclear Hazards
8. Ex-situ Conservation

II. Answer any FIVE of the following in about 250 words

8 X 5 = 40 Mark

1. Describe Renewable and Non- Renewable resources.
2. Define Eco System, its structure and functions
3. Describe pollution and its effects. Write brief notes on any two kinds of pollution.
4. What is Global Warming? Discuss the causes and effects of Global Warming.
5. Define Biodiversity. Explain the threats to Biodiversity.
6. What is the significance of Ozone layer? How is it getting depleted?
7. What is Disaster Management?
8. Write an essay on the Central Government's environmental policies.

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End Semester Examinations July 2021 (April 2021 Cycle)

**B.Com (Gen, Comp)/B.Sc/ B.A/B.B.A-I Year
Semester –II**

Subject: English - II

Subject ID : ENG2UGA21

Date :14-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section I

I. Answer any five questions in about 50-75 words (2X5=10 M)

1. What are the ways in which hands speak according to A G Gardiner?
2. What was the poet's opinion about the two roads in the poem Road not taken?
3. What is the message revealed in poem The Road not taken?
4. What are the 'trials and tribulations' Martin Luther talks about?
5. Briefly explain the dream of Martin Luther king Jr.
6. According to Henry W Longfellow, how do the lives of great men affect those around them?
7. What did the lady ask the dentist to wear? Why?
8. Write the gist of the conversation between Dolly and the dentist.

2. Read the following passage and answer the questions that follow: 5 M

Kissing as a part of salutation strictly does not match on the moral ground. But the essayist believes that Englishmen could not conceive that they will ever be argued out of shaking hands with each other. The essayist compares that greeting with the grip of the hand to accompany. It would seem like controlling one's anger or violation of sacred things. It seems like a bond without the seal and as inactive and cold as stepmother's breath or an official type written letter with typewritten signature. It seems as without shaking hands we are revolting with our hands.

1. What kind of salutation goes against the moral grounds?
2. What is the belief of the essayist?
3. Identify a 'simile' from the passage.
4. Give the antonym of the word 'sacred'.
5. Name the author of the passage.

3. Read the following stanzas and answer the questions that follow: 5 M

*Trust no Future, howe'er pleasant!
Let the dead Past bury its dead!
Act,— act in the living Present!
Heart within, and God o'erhead!*

*Lives of great men all remind us
We can make our lives sublime,
And, departing, leave behind us
Footprints on the sands of time;*

1. How does the poet picture past and present?
2. How does he want us to live the present?
3. What do we learn from great men?
4. Give the synonyms of the word 'sublime' & 'pleasant'.
5. Name the poet and the title of the poem.

Section II

4. Answer any two questions out of the four in about 200 words (2X5=10 M)

1. How does Decision making skills help you build a successful career? Explain in detail.
2. List and explain a few key skills that builds leadership skills.
3. Non-verbal communication is the key factor to build a good personality. List a few elements in detail
4. Explain in detail the Problem Solving Skills as an effective soft skill
5. Write the do's and don't's of dining etiquette.

Section III

- a.** Write a dialogue of eight exchanges on agreeing and disagreeing on an offer of a new course during the lockdown 6 M

b. Match the following

7 M

- | | |
|-------------------|--|
| i. Kleptomania | 1. Lover of books |
| ii. Monogamy | 2. Lover of human kind |
| iii. egotist | 3. One who often talks of his achievements |
| iv. Bibliophile | 4. Habit of stealing things |
| v. philanthropist | 5. Fear of open spaces |
| vi. Biography | 6. Looking at the negative side |
| vii. Pessimistic | 7. Writing about someone's life story |
| viii. Agoraphobia | 8. Custom of marrying one |

c. Write the correct spelling of the following words: 6 M

1. Tomorrow
2. Committee

3. Embarrassment
4. Absentia
5. Accommodate
6. Gynecologist

d. Transcribe the following words 1 ½ M

1. Active
2. Thermal
3. Closure

Change it into English 1 ½ M

1. /kəʊst/
2. /blʌf/
3. /bɪ'heɪv/

e. Change it into Indirect Speech: 4 M

1. The traffic police, “ show me your license?”
2. Ann said, “ when will you be back”
3. The watchman said to us, “ don’t play in the garden”
4. The boss said, “ don’t forget to order A3 size paper.”

f. Change it into direct speech 4M

1. He told me that he was Radha’s husband
2. He requested me to get the work done.
3. The doctor advised me to eat nutritious food.
4. They wanted to know what my name was.

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**B.Com (IT, Hons, Prof, IFA)/ B.B.A(IT, Analytics, FM, Entrepreneurship)-I Year
Semester II**

Subject: Functional English - II

Subject ID : FE2UGA21

Date :14-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section I

Answer ant SIX from the following:

(6X2=12 Marks)

1. Examine and elaborate on why, according to the author, self-esteem is indispensable for a successful life.
2. How are people with high self-esteem different from people with low self-esteem?
3. How is Ashok treated by the Doctor on confirming his disease?
4. How does Ashok cope with the unfortunate situation in his life?
5. What are Shaw's views on Spoken English?
6. What is the difference between Home Manners and Company Manners?
7. What is the father's advice to his son in the poem "If"?
8. Explain the theme of the poem "On killing a Tree"?

Section II

Answer the following (6X8= 48 Marks)

- 9. How should you prepare for an Interview.8 Marks.**

Or

What are the Do's and Don'ts to be kept in mind while preparing for the Interview?

- 10.What are the steps to be followed for an effective Group Discussion?8 Marks.**

or

What are the Dos and Don'ts of Group discussions?

3.Read the following advertisement and draft a Resume and a cover letter. 8 Marks.

11. Wanted a Masters in Commerce holding a diploma in Tally to work as a Senior Accountant in Ideal Tech Ltd. Interested candidates are welcome to send their resume to Ideal Institute of Learning, Hyderabad.

12. What are the four effective Presentation Skills. **8 Marks**

Or

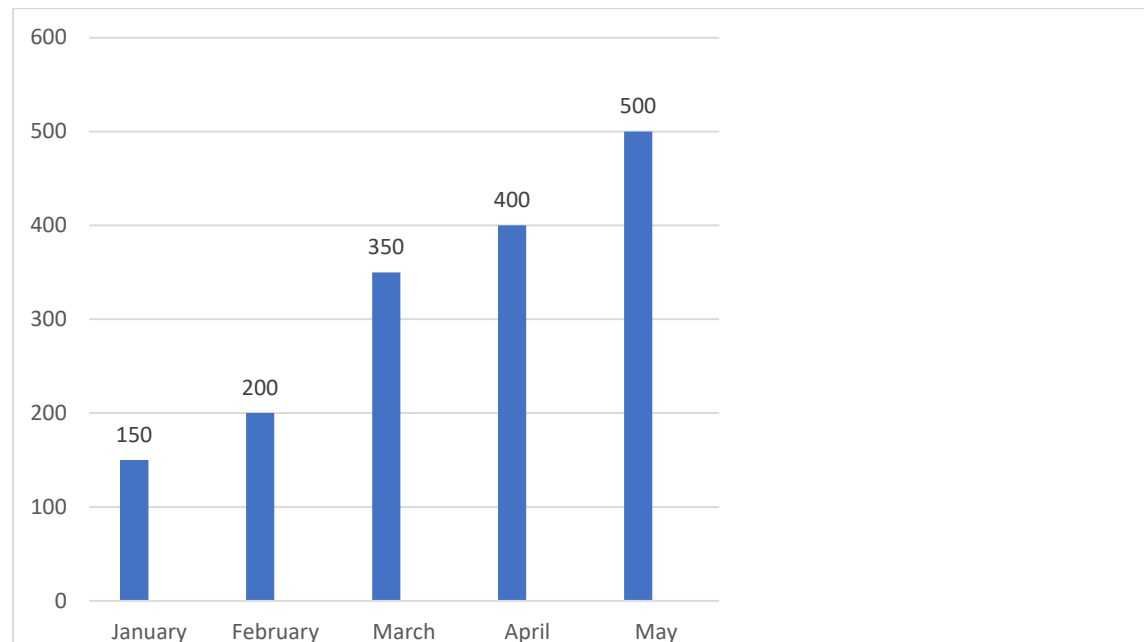
What are the Do's and Don'ts of Presentation Skills.

13. Write an e-mail correspondence: **8 Marks**

Assume that you are a Dealer of a general store. Write an email to the college in the city offering them a good discount on collaborating with them in an annual deal for ordering the sanitizers and hand gloves in this Covid.

14. Convert the following information into text 4 Marks

A. Sale of Helmets in the city



B. Read the following and draw a tree diagram. 4 Marks

A Company is headed by a Director, assisted by two Assistant Managers. Each Assistant Manager is assisted by two Financial Officers and each Financial Officer has a Secretary to

assist him in the smooth functioning of the factory.

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**B.Com (Gen, Comp)/B.Sc/ B.A/B.B.A (Gen)-I Year
Semester II**

Subject: Arabic II

Subject ID : SLA2UGA21

Date :17-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section-A

Answer the following questions

(3x12=36 marks)

Q.No:1. Write an essay on Compilation of the holy Quran.

(12M)

Or

Q.No:2. A) Write about the impact of Quran on Arabic Literature.

(6M)

B) Write a note on "Hassan bin sabit."

(6M)

Q.No:3. Write the Tafseer of surah zil zal (سورة الزلزال).

(12M)

Or

Q.No:4. A) Translate and explain the following verse with reference to context.

(6M)

ليلة القدر خير من الف شهر

B) Translate and explain the following verse with reference to context.

(6M)

الهكم التكاثر. حتى زرتم المقابر

Q.No:5. Write the summary of "Industrial Exhibition"

(12M)

Or

Q.No:6. A) Translate the following passage in English.

(6M)

ان مدينة حيدرآباد مدينة مشهورة ،هى تعرف بحضارتها وثقافتها، والآثار القديمة من تشارمينار ،وقلعة كولكنده، ومتحف سالارجنغ، وقصر شو محلة، ومكة مسجد، وقبات قطب شاهى، والجامعة العثمانية، ودائرة المعارف العثمانية، وغيرها.

B) Answer the following.

(6M)

1) بأى بوابة دخل الوالد وأهله فى المعرض؟

2) متى ولد مير عثمان علي خان ومتى توفى؟

3) بما يعرف الملك الأخير بمدينة حيدرآباد ؟

Section-B

II. Answer any two of the following.

2X12=24

Q.No:7. Define Adjective phrase (المركب التوصيفي) with Arabic examples. (12M)

Q.No:8 A) Explain about Verbal Sentence (الجملة الفعلية) (6M)

B) Write a note on Nominal Sentence (الجملة الاسمية) (6M)

Q.No:9. A) Translate the following passage in English. (12M)

فيصل : أهلا وسهلا ومرحبا بك. كيف الحال يا صديقي؟

جمال : طيب وأنت؟

فيصل : أنا بخير وعافية، شكرا. متى غادرت نيويورك يا صديقي؟

جمال : في الساعة العاشرة صباحا.

فيصل : كيف كان السفر؟

جمال : إنه كان مريحا جدا.

Q.No:10. A) Translate the following Sentences in Arabic. (6M)

1. O brother! Where are you going?

2. I have to open my bank account.

3. May I help you?

B) Write the meanings of the following words. (6M)

1. ضابط الجوازات 2. دولارات 3. صالة الإنتظار 4. الإستمار 5. حساب التوفير 6. موظف البنك

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Semester II

Subject: French II

Subject ID : SLF2UGA21

Date :17-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Part – A Total marks 40 (5 questions of 8 Marks each)

1. Conjuguez les verbes entre parenthèses au temps indiqué (12 au choix -1 x12) 12
(le présent et le passé composé et l'imparfait)

1. Nous ----- le travail. (faire - mettez à l'imparfait)
2. Ils ----- cet appartement. (acheter - mettez au présent)
3. Elle ----- les enfants à dîner. (appeler – mettez au passé composé)
4. Ils ----- ces papiers. (jeter- mettez à l'imparfait)
5. Tu ----- le salon. (balayer- mettez au présent)
6. Nous ----- préparer pour les examens. (commencer– mettez au passé composé)
7. Elles ----- les fleurs dans le vase. (mettre-mettez à l'imparfait)
8. Il ----- sa chambre. (ranger -mettez au présent)
9. Marie ----- les exercices. (répéter - mettez à l'imparfait)
10. Ils ----- . (se lever– mettez au passé composé)
11. Elle ----- les meubles. (essuyer- mettez à l'imparfait)
12. Nous ----- le français. (apprendre -mettez au présent)
13. Ils ----- cette villa. (vendre -mettez au passé composé)
14. Elles ----- de la musique. (jouer - mettez à l'imparfait)
15. Nous ----- les phrases avec les prépositions. (remplir -mettez au passé composé)
16. Vous ----- les leçons. (lire – mettez au présent)

II. A. Complétez les phrases avec un adjectif démonstratif : (8 au choix - ½ x 8) 4
Ce, cet, cette & ces

1. J'adore ----- actrice.

2. Paul n'aime pas ----- acteur.
3. Nous n'achetons pas ----- crayons.
4. ----- hôtel est construit récemment.
5. J'aime ----- restaurant près du cinéma Rex.
6. ----- femme a une belle coiffure.
7. Il faut couper ----- branches de cet arbre.
8. ----- photo est bonne.

II. B. Complétez les phrases avec les prépositions (8 au choix- ½ x 8)

4

Des, au, en,à, de la, à l', de

1. L'étudiant a posé une question ----- professeur ?
2. Le dîner ----- Français est très élaboré ?
3. Il vit ----- Etats – Unis.
4. Tu te lèves ----- 6 h.
5. Ils sont allés ----- voitures.
6. Elle va ---- école.
7. Au mois ---- décembre, il fait froid en Inde.
8. La voiture ----- dame est rouge.

III. A. Utilisez un pronom relatif Qui ou Que dans les phrases (6 au choix - ½ x 6)

3

1. Voilà le jeune fille ----- est ma voisine.
2. Ne prenez pas cet habit rouge ----- ne marche pas bien avec vous.
3. C'est Dr. Ravi ----- a soigné mon oncle.
4. Voyez cette dame ----- Paul l'invite chez soi, sa nouvelle directrice.
5. Je ne veux pas cette chemise ----- elle a apportée pour moi.
6. Aimez –vous ce film ----- vous avez vuà la télé.
7. Voilà la voiture ----- Les Vincent ont achetée.
8. Prenez ces pêches madame, ----- elles sont si fraîches.

III.B. Remplacez les mots soignés avec un pronom direct ou indirect dans les phrases suivantes (6 au choix - ½ x 6)

3

1. Voilà le parfum. Paul ----- achète.
2. Il envoie les cadeaux aux enfants pour Noël.
3. Elle part avec ses amis d'enfance au pique –nique.
4. Elle danse bien que ses amies.
5. Vous ne portez pas ces souliers.
6. Il donne des livres à ses élèves.
7. Paul est plus méchant que ses camarades.
8. Ils achètent un appartement.

IV. Mettez les phrases à l'impératif (6 au choix 1X6)

6

Ex : Tu dois faire tes devoirs. ---- Fais tes devoirs !

1. Tu **écoutes** le professeur.
2. Vous **fermez** cette fenêtre.

3. Nous prenons la vaccine.
4. Il faut **manger** bien. (vous)
5. Nous **remplissons** cette fiche.
6. Vous allez à l'école.
7. Tu dois **écrire** proprement.
8. Vous n'**ouvrez** pas vos livres.

V. Ecrivez / rédigez un paragraphe/ un dialogue sur un des sujets (10 phrases)

8

1. Ma famille
2. Ma journée
3. La télévision

Part B - Total Marks 20 (4 Questions of 5 marks each)

VI. Compréhension écrite (5 mks)

Dominique Lapierre est né en 1933. Il a publié son premier livre à l'âge de 17 ans, en 1950. Puis, il a fait son service militaire et a rencontré Larry Collins. Après son service militaire, il a travaillé pendant 15 ans pour Paris Match comme grand reporter. Il est allé à Tokyo, à Rio, au Congo, à Moscou, à New York, en Algérie et il a raconté l'actualité contemporaine. En 1960, il a écrit un best-seller avec son ami Larry Collins « Paris brûle-t-il » ? Il a rencontré Mère Térésa en 1981 et a fondé l'association « Action pour les enfants des lépreux de Calcutta ».

Les questions :

a. Dites vrai ou faux (½ x 5)

2 ½

1. Dominique est né en 1933. ()
2. Il a rencontré Lapierre. ()
3. Il a travaillé pour 'Canada Match' comme grand reporter. ()
4. En 1960, il a écrit un best-seller. ()
5. Il a rencontré Mère Térésa en 1981. ()

b. Complétez avec le mot du texte (½ x 5)

2 ½

1. Il a publié son premier livre à l'âge de ----- ans.
2. Il a rencontré-----.
3. Il a travaillé pendant 15 ans pour -----.
4. Il a rencontré ----- en 1981.
5. En, ----- et a fondé une association.

VII. Traduisez en anglais 5 au choix (5x1)

5

1. On partage ? -
2. Ah non ! C'est pour moi !
3. Alors je laisse le pourboire.—
4. C'est tout ?

5. Je vous dois combien ?
6. Je peux vous régler par carte ?
7. On accepte la carte à partir de 10 euros.

VIII. Traduisez en français 5 au choix (5x1)

5

1. I accepted immediately.
2. She is dancing.
3. Can I pay by card? -
4. What is your height? -
5. Can you help me?
6. Here is the fruit market.
7. It was stressful.

IX. Faites / rédigez un micro-dialogue avec 5 au choix (5x1)

5

1. ? - Il aime rester à la campagne.
2. Mettez –vous ce chapeau rouge ? - Oui,
3. Quelle heure est –il ? - Il
4. ----- ? – Il va à Paris en octobre.
5. Regardez –vous le matche du cricket ? - Non, -----
6. Où vont –ils ? - ?
7. ----- ? C'est Pierre Cardin.

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Semester II**

Subject: Hindi II

Subject ID : SLH2UGA21

Date :17-07-2021

Max.Marks:60

Time: 2hrs 30minutes

I. □□□□□ □□□□□ □□□□□□□□ □□ □□□□□ □□□□□ □

3×12=36

1. "□□□□□□ □□□□□□□□□□" □□□ □□ □□□□□ □□□□□□

□□

2.अ. संदर्भ साहित्य व्याख्या कीजिए।

a)सोचते सोचते मुझे हसी आ गयी।हम लोगों की यह विशेषता हो गयी है कि विदेशों में जाकर

अति उत्साह में अपने देश की निंदा करते हैं।

b)तुम्हारी जैसी स्त्री भी..क्या कहूँ, तुम इन ज्योतिषियों की बातों पर विश्वास करती हो ,जो दुनिया-भर

के झूठे और धूर्त हैं।ये झूठ बोलने की ही रोटियाँ कहते हैं।

3.ताई कहानी पाठ का सारांश लिखिए।

या

4.अ. a) गदल का चरित्र चित्रण कीजिए।

b)नरोत्तम सहाय का चरित्र कीजिए।

5.सेवा पाठ का सारांश लिखिए।

या

6.अ.a) भैया जी की राजनीति पर प्रकाश डालिए।

b)गजाधर बाबू आज के अभी भावकों का यथार्थ चित्रण है। इस कथन की पुष्टि कीजिए।

II.निम्नलिखित प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दीजिए।

2×12=24

7. डिप्टी कलेक्टरी पाठ का सारांश लिखिए।

8.अ. a) शकलदीप बाबू का चरित चित्रण कीजिए।

b) स्वामी विवेकानंद की विदेशों में कैसी छवि रही।

9 किसी एक विषय पर पत्र लिखिए।

अ) अपने पिताजी को पत्र लिख कर अपने नगर में आई बाढ़ के विषय में विवरण दीजिए।

b) किसी पुस्तक विक्रेता को पत्र लिखकर आवश्यक पुस्तकें मगवाईए।

10. आ a) किन्हीं 6 शब्दों का संधि विच्छेद कीजिए।

1. मुनीन्द्र 2. भानुदय 3. इत्यादि 4. रामायण

5. दिग्गज 6. पावक 7. उल्लंघन 8. अपेक्षा

b) किन्हीं 6 शब्दों का विलोम शब्द लिखिए।

1. शीत 2. उत्तरार्द्ध 3. साक्षर 4. शेष

5. उपकार 6. सुगम 7. सार्थक 8. वरिष्ठ

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Semester II

Subject: Sanskrit II

Subject ID : SLS2UGA21

Date :17-07-2021

Max.Marks:60

Time: 2hrs 30minutes

SECTION - A

Answer the following questions.

(3×12=36 M)

Q.1: बुद्धस्य वैराग्योत्पत्तिः इति पाठ्यांशस्य सारं लिखत ।

OR

Q.2: A) बुद्धचरितरचयितुः परिचयं संक्षेपेण लिखत ।

B) ससन्दर्भं व्याख्यात ।

- न चैव संवेगमुपैति लोकः प्रत्यक्षतोऽपीदृशमीक्षमाणः ।

Q.3: बृहत्संहितायाः महत्वं निरूपयत ।

OR

Q.4: A) आचार्यं पि. श्रीरामचंद्रदुडु महोदयस्य परिचयं

लिखत ।

B) ससन्दर्भं व्याख्यात ।

- मानवस्य शरीरे यथा रक्तनाड्यः भवन्ति यथा च तासु रक्तं प्रवहति तथैव भूमेरन्तरपि जलनाड्यः सन्ति तासु जलं प्रवहति ।

Q.5: गुरुः शिष्यान् किम् अनुशास्ति?

OR

Q.6: A) 'उपनिषद्' शब्दस्य अर्थं लिखत ।

B) ससन्दर्भं व्याख्यात ।

- सत्यं वद । धर्मं चर ।

SECTION - B

Answer any 'TWO' of the following. (2×12=24 M)

Q.7: गीतोक्तां दैवीसम्पदं व्याख्यात ।

Q.8: A) भगवद्गीतामुद्दिश्य निबन्धमेकं लिखत ।

B) ससन्दर्भं व्याख्यात ।

- न शौचं नापि चाचारो न सत्यं तेषु विद्यते ।

Q.9: सूचित लकारे लिखत -

i) भू (लङ्) ii) अस् (लट्) iii) लिख् (लृट्)

Q.10: A) विग्रहवाक्यं समास नामं च लिखत-

i) विद्यानिपुणः ii) सीतापतिः

iii) अज्ञानम् iv) नरसिंहः

v) पञ्चवटी vi) चक्रपाणिः

B) समस्तपदं समास नामं च लिखत-

i) पापानामभावः ii) कार्ये दक्षः

iii) रक्ता च सा लता च iv) माता च पिता च

v) भूमिं धरति इति vi) कृष्णेन सह वर्तते

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End Semester Examinations July 2021 (April 2021 Cycle)

B.Com (Gen, Comp)/B.Sc/ B.A/B.B.A (Gen)-I Year

Semester II

Subject: Telugu II

Subject ID : SLS2UGA21

Date :17-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section –A

Answer the following questions

(3x12=36 marks)

1. హనుమత్ సందేశానన్ వీరవింశతి. (12 మార్కులు)
(లక్షణం)
2. A) సూర్యోదయ సమయంలో లోక రక్షణ కోసం గోపరాజు వర్ణించిన తీరును వివరించండి. (6 మార్కులు)
B) సుభాషితములలో నీతులను పేర్కొనండి. (6 మార్కులు)
3. 'అల్పవీర' గీతంలో ముఖ్యదూర్మ బహుముఖీన వ్యక్తిత్వం ఎలా వర్ణించబడింది? (12 మార్కులు)
(లక్షణం)
4. A) పరపంచపదులు ద్వారా సా.నా.రా భావజాలానన్ తలపండి. (6 మార్కులు)
B) 'రాజు - కవి' అనే పాఠ్యభాగం ఆధారంగా రాజు కంటే కవి గొప్పవాడని నిరూపించండి. (6 మార్కులు)
5. ఎంకన్ సతీతక్కువ ఆదర్శ జీవితానన్ తలపండి. (12 మార్కులు)
(లక్షణం)
6. A) సంస్కృతి అనగానేమి? తొలంగణ సంస్కృతిలో పండుగల విశిష్టతను తలపండి. (6 మార్కులు)
B) తొలంగణ సంస్కృతి లో గోరజనపండుగలను విశ్లేషించండి. (6 మార్కులు)

Section -B

II. Answer any two of the following.

2X12=24

7. మహాదేవ రాజు, హరిహర మురారి దేవులు, ధర్మమవర్ధనుడు, మదన మంజరి వ్యూహాభిగ్నమైన విధిగా తలపండి. (12 మార్కులు)
8. A) హరిహర, మురారి దేవులు గురించి తలపండి. (6 మార్కులు)
B) దేవగిరి రాజ్యం గురించి రాయండి. (6 మార్కులు)
9. రుద్రమదేవి మహాదేవ రాజును ఓడించిన విధానం తలపండి. (12 మార్కులు)
10. A) మదనమంజరి పాత్ర చిత్రణ తలపండి. (6 మార్కులు)
B) నందననం గురించి రాయండి. (6 మార్కులు)

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End Semester Examinations July 2021 (April 2021 Cycle)

B.SC-I Year

Semester II

Subject: Mathematics II (Differential Equation)

Subject ID : **DFE2S01A21**

Date :22-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section-A

I. Answer the following questions

4x12=48

Unit-I

1. Describe linear differential equation $\frac{dy}{dx} + P(x)y = Q(x)$, where P and Q are functions of x only.

OR

2. Solve $(xy \sin xy + \cos xy) y dx + (xy \sin xy - \cos xy) x dy = 0$

Unit-II

3. Use the transformation $x^2 = u$ and $y^2 = v$ to solve the equation $axyp^2 + (x^2 - ay^2 - b)p - xy = 0$

OR

4. Solve the differential equation $xp^2 - 2yp + ax = 0$, where $p = \frac{dy}{dx}$

Unit-III

5. Solve the differential equation $(D^2 - 4D + 4)y = 8x^2 e^{2x} \sin 2x$

OR

6. Solve $y^{11} + y = \sin x + e^{-x}$ by the method of undetermined differential equation.

Unit-IV

7. Solve $(D^2 + a^2)y = \tan ax$ by the method of variation of parameters.

OR

8. Solve the differential equation $x^2 \frac{d^2 y}{dx^2} - 2x \frac{dy}{dx} + 2y = 4x^3$ by using the Cauchy-Euler equation.

Section-B

II. Answer any TWO of the following

2x6=12

1. Solve $\frac{dx}{y-zx} = \frac{dy}{yz+x} = \frac{dz}{x^2+y^2}$

2. Solve the differential equation $2px = 2 \tan y + p^3 \cos^2 y$

3. Solve $y'' + 2y' + y = x^2 e^{-x}$

4. Solve $x^2(y-z)p + y^2(z-x)q = z^2(x-y)$

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End Semester Examinations July 2021 (April 2021 Cycle)

BSC (MECS) -I Year

Semester II

Subject: Electronics II (Electronics Devices & Circuits)

Subject ID : EDC2S04A21

Date :26-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section – A

I. Answer ALL the Questions. Each question carries 12 marks.

4x12M=48M

1. A) Explain V-I characteristics in forward and reverse bias conditions with a suitable diagrams and discuss forward dynamic resistance.
B) Explain space charge capacitance.
(OR)
2. A) What is tunneling phenomenon? Explain V-I characteristics of a tunnel diode with suitable diagrams.
B) Obtain relation between α and β .
B) Explain BJT output characteristics and saturation, active, cut-off regions in CE configuration with suitable diagrams.
(OR)
4. A) Define stability factor and Obtain expression for it.
B) Explain H-parameters and draw the h-parameter equivalent circuit.
(OR)
5. A) Explain construction, working and output, transfer characteristics of a depletion MOSFET.
(OR)
6. A) Explain working of a UJT using its equivalent circuit.
B). In a UJT, interbase resistance is $10\text{ k}\Omega$ its intrinsic stand off ratio 0.6. find out R_{B1} and R_{B2} .
(OR)
7. A) Explain construction, working and V-I characteristics of a SCR.
B) Explain SCR as a in half wave rectifier and draw the input and output waveforms.
(OR)
8. A) Write a short note on electric effect? Explain construction and working and V-I characteristics of a photo transistor with suitable diagrams.

Section – B

Answer any TWO of the following. Each Question carries 6 marks.

2x6M=12M

9. Explain diode equation in forward and reverse bias conditions.

10. The current gain of a transistor in common emitter circuit is 49. Calculate its common base current gain. Find the base current when emitter current is 3 mA.
11. When the reverse gate voltage of 15 V is applied to a FET, the gate current is $10^{-3} \mu\text{A}$. Find the resistance between gate and source.
12. Explain construction and working of a LED with a suitable diagrams.

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End Semester Examinations July 2021 (April 2021 Cycle)

BSC (MPCS) -I Year Semester II

Subject: Physics II (Waves & Oscillations)

Subject ID : WOS2S03A21

Date :26-07-2021

Max.Marks:60

Time: 2hrs 30minutes

SECTION - A

Answer ALL the Questions. Each question carries 12 marks.

4x12M=48M

1. What is simple harmonic motion? Obtain the equation of a simple harmonic oscillator and find its solution. A particle executes S.H.M with a period of 0.001 sec and amplitude 0.5 cm. Find its acceleration when it is at 0.2 cm away from its mean position.
(OR)
2. What is a torsional pendulum? Describe the measurement of rigidity modulus of a wire using torsional pendulum.
3. Derive the equation of motion and its solution of a damped harmonic oscillator and explain critically damped and under damped cases.
(OR)
4. What are forced oscillation? Derive the equation of motion of forced harmonic oscillator and find its solution.
5. What are transverse waves? Explain modes of vibration of a stretched string clamped at both ends along with overtones.
(OR)
6. What are the laws of transverse vibration of stretched strings? Discuss energy transport in the wave motion along a vibrating string.
7. Derive wave equation for longitudinal vibrations in a bar and explain different modes in a bar fixed at both ends.
(OR)
8. Derive wave equation for transverse vibrations in a bar and discuss the boundary conditions in detail

Section – B

Answer any two questions of the following. Each question carries 6 marks. 2x6M = 12M

9. Under what conditions, the resultant of two mutually perpendicular simple harmonic motions of equal frequencies produces oblique ellipses. Explain?

10. Derive relaxation time of a damped harmonic oscillator and define quality factor.
11. A copper wire of radius 10^{-3} m has a length of 1 m. It is fixed at both ends and is subjected to a tension of 10^4 N. calculate the fundamental frequency and also first two overtones and corresponding wavelengths. [Density of copper is 8.92×10^{-3} Kg m⁻³]
12. Write short notes on tuning fork.

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BSC (MSCS) -I Year Semester II

Subject: Statistics II (Probability Distribution)

Subject ID : PBD2S02A21

Date :26-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section-A

I. Answer the following questions 4x12M =48M

1. Define CF state and prove the properties of it.
OR
2. Define CGF in Binomial distribution and derive the cumulants of it.
3. Define PGF in Poisson and find its mean and variance using PGF.
OR
4. Show that Poisson distribution approximates to Negative Binomial distribution.
5. Define Uniform distribution and find its mean and variance using MGF.
OR
6. Show that the Normal distribution is symmetric.
7. Define gamma distribution of second kind and find its non-central moments.
OR
8. Define Beta distribution of first kind and find its mean and variance.

II. Answer any TWO of the following

2x6M =12M

9. In a shooting competition, the probability of hitting a target is $\frac{1}{4}$ if he shoots 4 items what is the (i) probability of hitting the target at least twice and (ii) probability of hitting the target at most thrice.
10. Show that Poisson approximates to Binomial distribution.
11. Explain about weak law of large numbers with applications.

12. Consider a baby who cries at random at a mean rate of 5 distinct times per hour. If their parents respond only at every second time what is the probability that ten or more minutes will elapse between two responses of the parents to the baby.

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**B.Sc (MPCS, MECS, MSCS) -I Year
Semester II**

Subject: Computer Science II (Data Structuring and File Processing)

Subject ID : DSP2S05A21

Date :29-07-2021

Max.Marks:60

Time: 2hrs 30minutes

Section - A

Answer the following questions.

4x12 = 48

1. Explain stack mechanism with an algorithm and an example.
(OR)
2. What is priority queue? Explain its implementation with an example.
3. Explain the creation, inserting, deleting and searching process for a linked list.
(OR)
4. What is sequential search? Demonstrate with algorithm and an example.
5. Write about hashing. Describe hashing with chain procedure with the help of an example.
(OR)
6. Write the properties of Binary Search tree. Explain node insertion to Binary tree with an algorithm.
7. Explain the functions in C++ to access the file randomly.
(OR)
8. What is B- tree? Illustrate its operations with examples.

Section – B

Answer any two questions.

(6 x 2 = 12 marks)

9. What is data structure? Write different types of data structures.
10. What is the use of Merge sort? Demonstrate Merge sort process with an example.
11. Discuss the properties of binary tree.
12. Describe file protection mechanisms.