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[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1001 B

Unique Paper Code : 12295203

**Name of the Paper : Coupled Human and
Environment System**

**Name of the Course : B.A. (Hons.) Generic
Elective Course CBCS
(LOCF) Admission of 2019
onwards)**

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. All questions are compulsory and carry equal marks.
3. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

2. सभी प्रश्न अनिवार्य हैं और समान अंक हैं।
3. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में कीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

1. What are the components of human and environment system? Explain in detail how they interact.

मानव और पर्यावरण प्रणाली के घटक क्या हैं? विस्तार से बताएं कि वे कैसे परस्पर कार्य करते हैं।

OR

“Coupled human and environment characterizes two-way dynamic interaction.” Comment in detail on this concept.

“युग्मित मानव और पर्यावरण दो-तरफा गतिशील अंतःक्रिया है।” इस अवधारणा पर विस्तार से टिप्पणी कीजिए।

2. Analyse the human impact on the biogeochemical cycle and the resultant environmental challenges with suitable examples.

उपयुक्त उदाहरणों के साथ जैव-भू-रासायनिक चक्र और परिणामी पर्यावरणीय चुनौतियों पर मानव प्रभाव का विश्लेषण करें।

OR

What is biogeochemical cycle? Elucidate the impact of human activity on it with suitable examples.

जैव भू-रासायनिक चक्र क्या है ? मानव क्रियाकलापों का उस पर पड़ने वाले प्रभाव को उपयुक्त उदाहरणों के साथ स्पष्ट कीजिए ।

3. Elaborate on the impact of human activities on the Atmosphere-Water System.

वायुमंडल-जल प्रणाली पर मानवीय गतिविधियों के प्रभाव पर विस्तार से चर्चा कीजिए ।

OR

Explain the impact of anthropogenic activities on the Himalaya-Ganga System with suitable examples.

हिमालय-गंगा प्रणाली पर मानवजाति गतिविधियों के प्रभाव को उपयुक्त उदाहरणों के साथ समझाइए ।

4. "Coupled human environment system promote resilience and sustainability." Analyse with suitable examples.

“युग्मित मानव पर्यावरण प्रणाली लचीलापन और स्थिरता को बढ़ावा देती है।” इसका विश्लेषण उपयुक्त उदाहरणों सहित कीजिए।

OR

“For effective management, governance and policies, there is a need to understand the complex characteristics of Coupled Human and Environment System.” Explain with suitable examples.

“प्रभावी प्रबंधन, शासन और नीतियों के लिए युग्मित मानव और पर्यावरण प्रणाली की जटिल विशेषताओं को समझने की आवश्यकता है।” उपयुक्त उदाहरणों के साथ स्पष्ट कीजिए।

5. Write short notes on **any two** of the following :

- (i) Resilience
- (ii) Policies related to human-environment system
- (iii) Surface and ground water interaction

निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (i) लौटाव
- (ii) मानव पर्यावरणी प्रणाली से संबंधित नीतियां
- (iii) सतह और भूजल परस्पर क्रिया

Sl. No. of Q.P.: 1011

Unique Paper Code: 11015209

Your Roll No:

Name of the Paper: Advertising and Corporate Communications

Name of the Course: B.A. (Hons.) Journalism

Semester: II GE paper

Duration: 3 hrs

Maximum Marks: 75 Marks

(Write your Roll No. on top immediately on receipt of this question paper)

ALL QUESTIONS ARE COMPULSORY

Part A Short questions 10 marks each

Attempt any three

1. What do you understand by the Marketing Mix? Discuss the role of Advertising and Sales Promotion in the Marketing Mix.

2. What are the contemporary trends in digital advertising? Discuss with relevant examples the opportunities and challenges posed by various types of digital advertising.

3. 'Advertisers in India violate the ethical norms of Advertising'. Examine this statement with examples and discuss the codes of ASCI.

4.

1. Differentiate between any two of the following:

- b. Internal Publics and External Publics
- c. Publicity and Propaganda
- d. Differentiate between Brand Equity, Identity and Image
- e. Crisis Management and corporate social responsibility

(7.5x2=15)

5. Write short notes on any three

- a) IPRA
- b) Market Research

- c) Direct Mail
- d) Surrogate Advertising

Part B long questions 15 marks each, attempt any three

6. What are the ways in which markets can be segmented? How does segmentation help in target marketing?
(15)
7. Explain the various stages and parameters to be considered while planning an advertising campaign.
(15)
8. How is crisis communication an important aspect of corporate communications? Explain
(15)
9. What is corporate communications? Discuss recent trends in corporate social responsibility.
(15)
10. What do you understand by the term positioning? What are the means to achieve brand identity? Give examples.
(15)

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[This question paper contains 4 printed pages.]

Your Roll No.....

आपका अनुक्रमांक.....

Sr. No. of Question Paper : 1018

B

Unique Paper Code : 12325901

Name of the Paper : Nationalism in India

Name of the Course : B.A. (Hons) Political Science
(GE)

पाठ्यक्रम का नाम : बी.ए. (ऑनर्स)

Semester / Annual : II

सेमेस्टर / वार्षिक

Duration : 3 Hours

Maximum Marks : 75

समय : 3 घण्टे

पूर्णांक : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **Any Four** questions.
3. **All** questions carry equal marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

P.T.O.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।
2. किन्हीं चार प्रश्नों के उत्तर दीजिये ।
3. सभी प्रश्नों के अंक समान हैं ।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. Evaluate the Nationalist approach to study freedom struggle in India.

भारत में स्वतंत्रता संग्राम के अध्ययन के लिए राष्ट्रवादी दृष्टिकोण का मूल्यांकन कीजिये।

2. What were the prominent modes of social reforms adopted by the reformers in nineteenth century? Elaborate.

उन्नीसवीं शताब्दी में सुधारकों द्वारा अपनाए गए सामाजिक सुधारों के प्रमुख तरीके क्या थे? विस्तृत चर्चा करें।

3. In what ways the strategies and programmes of Revolutionary nationalists (1920- 1935) were different from that of the Extremist nationalists (1905-1917) in India? Elucidate.

क्रांतिकारी राष्ट्रवादियों (1920-1935) की रणनीतियाँ और कार्यक्रम भारत में चरमपंथी राष्ट्रवादियों (1905-1947) से किस प्रकार भिन्न थे? स्पष्ट कीजिये।

4. Write an essay on the gradual expansion of the idea of constitution and constitutionalism during the struggle for Swaraj.

स्वराज के संघर्ष के दौरान संविधान और संवैधानिकता के विचार के क्रमिक विस्तार पर एक निबंध लिखिए।

5. Analyse the impact of Civil Disobedience movement in Indian struggle for independence.

भारतीय स्वतंत्रता संग्राम में सविनय अवज्ञा आंदोलन के प्रभाव का विश्लेषण कीजिए।

6. Critically comment on the relationship between the nationalist movement and the women's movement in India.

भारत में राष्ट्रवादी आंदोलन और महिला आंदोलन के बीच संबंधों पर आलोचनात्मक टिप्पणी कीजिए।

7. What is Two-Nation theory? In what ways did it weaken the nationhood and nationalism in India?

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द्विराष्ट्र सिद्धांत क्या है? इसने भारत में राष्ट्रीयता और राष्ट्रवाद को किस प्रकार कमजोर किया?

8. Write short notes on Any Two of the following :

निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

(a) Workers Movement

श्रमिक आंदोलन

(b) Separate Electorates

पृथक निर्वाचक मंडल

(c) Satyashodhak Samaj

सत्यशोधक समाज

(d) Congress Socialist Party

कांग्रेस सोशलिस्ट पार्टी

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1066

B

Unique Paper Code : 12135910

Name of the Paper : Individual, Family and
Community in Indian Social
Thought

Name of the Course : B.A. (H), GE, LOCF

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Unless otherwise required in a question answers should be written either in Sanskrit or in Hindi or in English, but the same medium should be used throughout the paper.
3. Answer any five Questions.
4. All questions carry equal marks. (15×5=75)

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

2. अन्यथा आवश्यक न होने पर, इस प्रश्नपत्र का उत्तर संस्कृत या हिन्दी या अंग्रेजी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

3. पाँच प्रश्नों के उत्तर दीजिए।

4. सभी प्रश्नों के अंक समान हैं।

1. गीता में वर्णित कर्ममार्ग की प्रासंगिकता का विस्तार से विवेचन कीजिये।

Describe the relevance of Karma mārṅa according the Geeta.

2. मनुष्य के जीवन में भौतिक तथा आध्यात्मिक उद्देश्यों की प्राप्ति के साधन के रूप में पुरुषार्थ-चतुष्टय की उपादेयता का प्रतिपादन कीजिये।

Describe the usefulness of four-Puruṣārtha as a means of achieving physical and spiritual goals in human life.

3. वाल्मीकि रामायण में वर्णित सीता-निर्वासन की घटना पर विभिन्न मतों का आलोचनात्मक विश्लेषण कीजिये।

Critically analyze various opinions on the Sita-banishment incident described in the Yālmiki Rāmāyaṇa.

4. मनुष्यों में परस्पर सहृदयता एवं सामंजस्य स्थापित करने में सामनस्य सूक्त के विचारों की वर्तमान समय में उपयोगिता को प्रतिपादित कीजिए।

In the social system, to establish mutual tenderheartedness and harmony among humans, in what way are the thoughts of *Sāmmanasyam Sūkta* relevant today?

5. संस्कृत साहित्य में मानव व प्रकृति के प्रगाढ़ सम्बन्ध का चित्रण मिलता है। कालिदास के विशेष संदर्भ में इस कथन का विवेचन कीजिये।

In Sanskrit literature, there is a depiction of the close relationship between human and nature. Discuss this statement with special reference to Kālidāsa.

6. विवादों के समाधान व सामाजिक व्यवस्था के सुचारु ढंग से संचालन हेतु धर्मशास्त्रों में वर्णित नियमों का संविद् व्यतिक्रम व समय अनफकर्म के संदर्भ में उल्लेख करें।

For the resolution of disputes and the smooth functioning of the social system, the rules mentioned in the *Dharmaśāstra* should be mentioned in the context of *samvidvyatikrama* and *samaya-anapakarma*.

7. निम्नलिखित में से किन्हीं दो पर लघु निबन्ध लिखिए :

Write short essay on any two of the following :

(क) पञ्चमहायज्ञ

Panchmahayajhna

(ख) इष्टापूर्त

Estapurta

(ग) पुरुषार्थ चतुष्टय

Purushartha chatushtaya

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[This question paper contains 16 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 591

B

Unique Paper Code : 12275201

Name of the Paper : Introductory Macroeconomics

Name of the Course : Hons GE

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. There are **eight** questions in the question paper. Answer any **five** questions.
3. All questions carry equal **(15)** marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।
2. प्रश्न पत्र में आठ प्रश्न हैं । किन्हीं पाँच प्रश्नों के उत्तर दीजिए ।
3. सभी प्रश्नों के अंक समान (15) हैं ।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. (i) Assume that money demand takes the following form :

$$\frac{M}{P} = Y[1 - (r + e)]$$

where $Y = 1000$ and $r = 0.1$

- (a) Assume that, in the short run, e is constant and equal to 25%. Calculate the amount of seigniorage if the rate of money growth,

$\frac{\Delta M}{M}$, equals :

(i) 25%

(ii) 50%

(iii) 75%

(b) In the medium run, $e = \frac{\Delta M}{M}$. Compute the

amount of seigniorage associated with the three rates of money growth in part (a).

Explain why the answers different from those in (a).

(ii) Discuss expenditure approach to measure GDP.

Why are exports included and imports deducted in this approach.

(i) मान लें कि पैसे की मांग निम्नलिखित रूप लेती है :

$$\frac{M}{P} = Y[1 - (r + e)]$$

जहाँ $Y = 1000$ और $r = 0.1$

(अ) मान लें कि, अल्पावधि में, e स्थिर है और 25% के

बराबर है। यदि धन वृद्धि की दर, $\frac{\Delta M}{M}$, बराबर होती

है, तो सेग्रिओरेज की राशि की गणना करें:

(i) 25%

(ii) 50%

(iii) 75%

(ब) मध्यम अवधि में, $e = \frac{\Delta M}{M}$ भाग (ए) में धन वृद्धि की

तीन दरों से जुड़े सेनिओरेज की मात्रा की गणना करें।

बताएं कि उत्तर (ए) से अलग क्यों हैं।

(ii) सकल घरेलू उत्पाद को मापने के लिए व्यय दृष्टिकोण पर चर्चा

करें। इस दृष्टिकोण में निर्यात को क्यों शामिल किया जाता है

और आयात को क्यों घटाया जाता है।

2. (i) Suppose we have an economy described by the following functions :

$$C = 50 + 0.8 YD$$

$$\bar{I} = 70$$

$$\bar{G} = 200$$

$$\overline{TR} = 100$$

$$t = 0.20$$

- (a) Calculate the equilibrium level of income.
- (b) Calculate the multiplier in this model.
- (c) Calculate budget surplus.
- (d) Suppose that t increases to 0.25. What is the new equilibrium income? The new multiplier?
- (e) Calculate the change in the budget surplus. Would you expect the change in the surplus to be more or less if $c=0.9$ rather than 0.8?

- (f) Can you explain why the multiplier is 1 when $t=1$?
- (ii) Discuss the concept of liquidity trap. Does monetary policy works in this case? Explain using diagrams.
- (i) मान लीजिए कि हमारे पास निम्नलिखित कार्यों द्वारा वर्णित अर्थव्यवस्था है :

$$C = 50 + 0.8 YD$$

$$\bar{I} = 70$$

$$\bar{G} = 200$$

$$\overline{TR} = 100$$

$$t = 0.20$$

(क) आय के संतुलन स्तर की गणना करें।

(ख) इस मॉडल में गुणक की गणना करें।

(ग) बजट अधिशेष की गणना करें।

(घ) मान लीजिए कि t बढ़कर 0.25 हो जाता है। नई संतुलन आय क्या है? नया गुणक।

(ङ) बजट अधिशेष में परिवर्तन की गणना करें। क्या आप उम्मीद करते हैं कि अधिशेष में परिवर्तन 0.8 के बजाय $c=0.9$ होने पर कम या ज्यादा होगा?

(च) क्या आप बता सकते हैं कि $t=1$ होने पर गुणक 1 क्यों होता है?

(ii) चलनिधि जाल की अवधारणा की विवेचना कीजिए। क्या इस मामले में मौद्रिक नीति काम करती है? आरक्षकों की सहायता से समझाइए।

3. (i) The following equations describe an economy.

$$C = 40 + 0.75 YD$$

$$I = 140 - 10i$$

$$\bar{G} = 100$$

$$t = 0.20$$

$$L = 0.2Y - 5i$$

$$\frac{\bar{M}}{\bar{P}} = 85$$

- (a) What is the equation that describes the IS curve?
- (b) What is the equation that describes the LM curve?
- (c) What are the equilibrium levels of income and the interest rate?
- (d) What happens to the equilibrium income and interest rate when the government increases its expenditure by 65?
- (ii) What is crowding out? Discuss with a suitable diagram.
- (i) निम्नलिखित समीकरण एक अर्थव्यवस्था का वर्णन करते हैं।

$$C = 40 + 0.75 YD$$

$$I = 140 - 10i$$

$$\bar{G} = 100$$

$$t = 0.20$$

$$L = 0.2Y - 5i$$

$$\frac{\bar{M}}{\bar{P}} = 85$$

- (क) IS वक्र का वर्णन करने वाला समीकरण क्या है ?
- (ख) LM वक्र का वर्णन करने वाला समीकरण क्या है ?
- (ग) आय के संतुलन स्तर और ब्याज दर क्या हैं ?
- (घ) संतुलन आय और ब्याज दर क्या होता है जब सरकार अपने व्यय को 65 से बढ़ा देती है ?
- (ii) Crowding out क्या है ? उपयुक्त आरेख के साथ चर्चा कीजिए ।

4. (i) How does the official settlement balance ensure that the "Fundamental Balance of Payments Identity" holds?
- (ii) You are given the following information about an economy :

Gross private domestic investment=40

Government purchases of goods and services=30

Gross national product (GNP)=200

Current account balance=-20

Taxes=60

Government transfer payments to the domestic private sector=25

Interest payments from the government to the domestic private sector=15

Factor income received from rest of world=7

Factor payments made to rest of world=9

Find the following, assuming that government investment is zero :

(a) Consumption

(b) Net Exports

(c) GDP

(d) Net factor payments from abroad

(e) Private Saving

(f) Government Saving

(g) National Saving

(i) आधिकारिक निपटान संतुलन कैसे सुनिश्चित करता है कि “मूल भुगतान संतुलन की पहचान” है ?

(ii) आपको एक अर्थव्यवस्था के बारे में निम्नलिखित जानकारी दी गई है :

सकल निजी घरेलू निवेश=40

वस्तुओं और सेवाओं की सरकारी खरीद=30

सकल राष्ट्रीय उत्पाद (जीएनपी)=200

चालू खाता शेष=20

कर=60

घरेलू निजी क्षेत्र को सरकारी हस्तांतरण भुगतान=25

सरकार से घरेलू निजी क्षेत्र को ब्याज भुगतान=15

शेष विश्व से प्राप्त कारक आय=7

शेष विश्व को किए गए कारक भुगतान=9

यह मानते हुए कि सरकारी निवेश शून्य है, निम्नलिखित खोजें:

(क) स्वपत

(ख) शुद्ध निर्यात

(ग) सकल घरेलू उत्पाद (GDP)

(घ) विदेशों से शुद्ध कारक भुगतान

(ङ) निजी बचत

(च) सरकारी बचत

(छ) राष्ट्रीय बचत

5. (i) Differentiate between real GDP and nominal GDP.
- (ii) Discuss the functions of money. Who controls the money supply and how?
- (iii) The following financial data is given for an economy :

Currency=2000

Reserves=400

Deposits=4000

Calculate the

(a) Reserve ratio

(b) Size of the money multiplier

(c) Monetary base

(i) वास्तविक जीडीपी और नॉमिनल जीडीपी में अंतर स्पष्ट कीजिए ।

(ii) मुद्रा के कार्यों की विवेचना कीजिए । मुद्रा आपूर्ति को कौन नियंत्रित करता है और कैसे ?

(iii) एक अर्थव्यवस्था के लिए निम्नलिखित वित्तीय आंकड़े दिए गए हैं:

मुद्रा = 2000

रिजर्व = 400

जमा = 4000

गणना कीजिये

(क) आरक्षित अनुपात

(ख) धन गुणक का आकार

(ग) मौद्रिक आधार

6. (i) Explain the concept and causes of hyperinflation. Suppose policies that the government can use to control hyperinflation.
- (ii) What is high powered money? To what extent does high powered money affect the money supply in an economy?

(i) अतिमुद्रास्फीति की अवधारणा और कारणों की व्याख्या करें। मान लीजिए कि सरकार हाइपरइन्फ्लेशन को नियंत्रित करने के लिए नीतियों का उपयोग कर सकती है।

(ii) उच्च शक्ति वाली मुद्रा क्या है? एक अर्थव्यवस्था में उच्च शक्ति वाली मुद्रा आपूर्ति को किस हद तक प्रभावित करती है?

7. (i) If capital stock of a nation rises, what will be its effect on output, employment and real wage? Explain in the context of classical model using suitable diagrams.

(ii) Distinguish between budget surplus and full employment budget surplus. Which one is a better measure of direction/stance of fiscal policy (i.e. expansionary or contractionary)? Discuss.

(i) यदि किसी देश का पूंजी भंडार बढ़ता है, तो उत्पादन, रोजगार और वास्तविक मजदूरी पर इसका क्या प्रभाव पड़ेगा? उपयुक्त आरेखों की सहायता से शास्त्रीय मॉडल के संदर्भ में व्याख्या कीजिए।

- (ii) बजट अधिशेष और पूर्ण रोजगार बजट अधिशेष के बीच अंतर करें। राजकोषीय नीति की दिशा/रुख का बेहतर माप कौन सा है (अर्थात् विस्तारक या संकुचन) ? विचार-विमर्श करना।

8. Write short notes on any two :

- (i) Money Multiplier
- (ii) Quantity Theory of Money
- (iii) Seigniorage

किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

- (i) धन गुणक
- (ii) पैसे की मात्रा सिद्धांत
- (iii) वरिष्ठ

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 592

B

Unique Paper Code : 12055206

Name of the Paper : Patkatha Tatha Samvad
Lekhan
(पटकथा तथा संवाद लेखन)

Name of the Course : B.A.(H) / B.Sc.(H) /
B.Com.(H)- Hindi : CBCS
- GE

Semester : II

Duration : 3 Hours

Maximum Marks : 75

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

2. सभी प्रश्न अनिवार्य हैं।

1. 'पटकथा, कथा का वह रूप है, जिसके आधार पर निर्देशक, बनाई जाने वाली फिल्म का अनुमान लगा सकता है' - इस कथन के आलोक में पटकथा के स्वरूप पर विचार कीजिए। (14)

अथवा

P.T.O.

पटकथा की अवधारणा को स्पष्ट करते हुए फिल्म निर्माण में पटकथा के महत्व पर प्रकाश डालिए।

2. कहानी का स्वरूप स्पष्ट करते हुए बताइए कि किसी कहानी को पटकथा में रूपांतरित करने की संपूर्ण प्रक्रिया क्या है? (14)

अथवा

फीचर फिल्म के लिए पटकथा लेखन कैसे किया जाता है?

3. संवाद का आशय स्पष्ट करते हुए अच्छे संवाद की विशेषताओं को उदाहरण देकर स्पष्ट कीजिए। (14)

अथवा

अच्छे संवाद की भाषागत विशेषताओं पर प्रकाश डालिए।

4. टीवी धारावाहिक का संवाद लेखन कैसा होना चाहिए? सोदाहरण स्पष्ट कीजिए। (14)

अथवा

कहानी और फिल्म के संवाद लेखन का अंतर स्पष्ट कीजिए।

5. इनमें से किन्हीं तीन पर टिप्पणियां लिखिए : (6 + 6 + 7)

- (i) फीचर फिल्म
- (ii) फ्लैश बैक तकनीक :
- (iii) संवाद के सिद्धांत
- (iv) आंगिक भाषा
- (v) पारिवारिक धारावाहिकों के संवाद

(500)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 593

B

Unique Paper Code : 12315214

Name of the Paper : The World after 1945

Name of the Course : B.A. (Hons) GE

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer **Four** questions in all.
3. **All** questions carry equal marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

2. कुल चार प्रश्नों के उत्तर दीजिए ।
3. सभी प्रश्नों के अंक समान हैं ।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. Do you think the term 'decolonization' takes into account the long struggles for the liberation of the people of the colonies? Discuss it with special reference to the Algerian Liberation Movement.

क्या आपको लगता है कि उपनिवेशों में हुए लम्बे जन आंदोलनों के लिए 'वि-औपनिवेशीकरण' जैसी शब्दावली का इस्तेमाल करना उपयुक्त है ? अल्जीरिया के स्वाधीनता संग्राम के विशिष्ट संदर्भ में इसकी चर्चा करें ।

2. Write a critical essay on the crisis of the welfare state in the United Kingdom in the second half of the twentieth century.

बीसवीं शताब्दी के दूसरी मध्यावधि में ब्रिटेन में लोक कल्याणकारी राज्य के संकट के ऊपर एक आलोचनात्मक लेख लिखें ।

3. Discuss the issues raised by the various environmental movements started in different parts of the World in the last century.

पिछली शताब्दी में विश्व के विभिन्न हिस्सों में शुरू हुए पर्यावरणीय आंदोलनों में उठाए गए विभिन्न मुद्दों की चर्चा करें।

4. Analyse the causes and forms of resistance of either of the two students' movements in Paris and Beijing.

पेरिस और बीजिंग में से किसी एक छात्र आंदोलन के कारणों और विद्रोह के स्वरूपों का विश्लेषण करें।

5. Did the Arab Spring really lead to the democratization of politics in the countries of the Middle East and Sub-Saharan Africa?

क्या 'अरब स्प्रिंग' ने वाकई में मध्य पूर्व और उप-सहारन अफ्रीका के देशों में राजनीति के प्रजातांत्रिकरण के लिया रास्ता साफ किया ?

6. Highlight the various issues at stake in the debates over the status of women across different cultures and religions.

विभिन्न संस्कृतियों और धार्मिक विश्वासों में स्त्रियों की स्थिति के ऊपर पैदा हुए विवादों के मुख्य मुद्दों को रेखांकित करें।

7. In what sense do you find the emerging global culture inclusive of other local cultures from different parts of the World?

किन अर्थों में आप उभरते हुए वैश्विक संस्कृति में विश्व के अन्य हिस्सों के स्थानीय संस्कृतियों का भी समावेश पाते हैं ?

8. Write short notes on any two of the following :

- (a) Martin Luther King
- (b) Bhopal Gas Tragedy
- (c) Chipko Movement
- (d) The roles of Digital Media in the making of global culture

निम्न में से किन्हीं दो पर एक संक्षिप्त टिप्पणी लिखें :

- (क) मार्टिन लूथर किंग
- (ख) भोपाल गैस त्रासदी
- (ग) चिपको आंदोलन
- (घ) विश्व संस्कृति के निर्माण में डिजिटल मीडिया की भूमिका

[This question paper contains 4 printed pages.]

Your Roll No.....

B

Sr. No. of Question Paper : 983

Unique Paper Code : 12035908

Name of the Paper : Readings on Linguistic
Diversities and Literary
Movement

Name of the Course : GE Elective

Semester : II / IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. This question paper has two parts. Both parts are compulsory.
3. **Part A** – answer any 3 questions ($3 \times 10 = 30$ marks)
4. **Part B** – answer any 3 questions ($3 \times 15 = 45$ marks)

PART A

1. I'd suggest that agency in these women's tales is connected with their being able to tell their own story and it's being heard...

P.T.O.

- (i) Identify the author and the chapter. (2)
- (ii) What is the context of this statement? (3)
- (iii) Why is it important for women to tell their own story? (5)

2. I remember river Phalgun

That goes dry in summer defying our prayers
Where once Buddha got enlightenment
And learned to take the earth as a begging bowl

- (i) Identify the poem and the poet. (2)
- (ii) In what context do these lines appear in a poem about America? (3)
- (iii) How does the poet set up a contrast between India and America? (5)

3. They use Hindi in place of English, while the fact is that their masters use English in place of Hindi- the two of them have struck a deal.

- (i) Identify the poem and the poet. (2)
- (ii) Who does the poet mean by 'they'? What deal have they struck? (3)

- (iii) What is the poet's attitude towards the political status of the two languages mentioned here? (5)

4. A son was born

The cowshed was depleted;

A daughter was bom The cowshed filled up.

- (i) Name the song. What is the original language of the song? (2)
- (ii) On what occasion is the song sung? Which tribe does the song belong to? (3)
- (iii) What do the above lines tell us about the condition of women in the Community? (5)

5. Once you are used to it you never afterwards feel anything; your blood nevermore congeals nor flows for wet mud has been slapped all over your bones.

- (i) Name the poem and the poet of the above lines. (2)
- (ii) Discuss how the above lines are related to the title of the poem? (3)

- (iii) Identify the voice of protest and comment critically. (5)

PART B (choose any three) (15×3=45)

6. According to Sujit Mukherjee, "The problem of handling multilingual material can be forbidding but not altogether unsurmountable." Do you agree? Give reasons for your answer. (15)
7. Analyse the Ghazal by Amir Khusrau as an exploration of the theme of love and separation. Do you find anything unusual in the deployment of theme and/or poetic devices in the poem? Justify your answer with suitable examples. (15)
8. Discuss *Karukku* as a powerful portrayal of Dalit suppression. (15)
9. Comment upon the conclusion of the story *A Flowering Tree*. (15)
10. Compare and contrast the features of the Bhakti and Sufi traditions. (15)

[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1174

B

Unique Paper Code : 32355202

Name of the Paper : GE-2 Linear Algebra

Name of the Course : **Generic Elective**

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Do any two parts from each question.

1. (a) If x and y are vectors in \mathbb{R}^n , then prove that
 $|x \cdot y| \leq \|x\| \|y\|$.

Also, verify it for the vectors $x = [1, -2, 0, 2, 3]$,
 $y = [0, -3, 2, -1, -1]$. (6)

- (b) Let x and y be non-zero vectors in \mathbb{R}^n , then prove that $x \cdot y = \|x\| \|y\|$ if and only if y is a positive scalar multiple of x . (6)

P.T.O.

- (c) (i) For the vectors $a = [6, -5, -2]$ and $b = [-4, -3, 2]$, find $\text{proj}_a b$ and verify that $b - \text{proj}_a b$ is orthogonal to a . (3)

- (ii) Prove that if $(x + y) \cdot (x - y) = 0$, then $\|x\| = \|y\|$, where x and y are vectors in \mathbb{R}^n . (3)

- (d) Use the Gauss-Jordan Method to solve the following system of linear equations.

$$\begin{aligned} x + 2y + z &= 8 \\ 2x + 3y + 2z &= 14 \\ 3x + 2y + 2z &= 13. \end{aligned} \quad (6)$$

2. (a) Determine whether the vector $[7, 1, 18]$ is in the row space of the matrix

$$A = \begin{bmatrix} 3 & 6 & 2 \\ 2 & 10 & -4 \\ 2 & -1 & 4 \end{bmatrix}. \quad (6.5)$$

- (b) Find the characteristic polynomial and eigen values of the matrix

$$A = \begin{bmatrix} 4 & 0 & -2 \\ 6 & 2 & -6 \\ 4 & 0 & -2 \end{bmatrix}$$

Is A diagonalizable? Justify. (6.5)

- (c) (i) Show that the set of vectors of the form $[2a - 3b, a - 5c, a, 4c - b, c]$ in \mathbb{R}^5 forms a subspace of \mathbb{R}^5 under the usual operations. (3)

- (ii) Find the eigenspace E_λ corresponding to the eigen value $\lambda = 3$ for the matrix

$$A = \begin{bmatrix} 3 & -1 \\ 0 & 4 \end{bmatrix} \quad (3.5)$$

- (d) Let V be the set \mathbb{R}^2 with the operations addition and scalar multiplication for x, y, w, z and a in \mathbb{R} defined by:

$$[x, y] \oplus [w, z] = [x + w + 1, y + z - 2] \text{ and}$$

$$a \odot [x, y] = [ax + a - 1, ay - 2a + 2].$$

Prove that V is a vector space over \mathbb{R} . Find the zero vector in V and the additive inverse of each vector in V . (6.5)

3. (a) Using rank criterion, check whether the following system is consistent or not?

$$\begin{bmatrix} 1 & -2 & -3 & 4 \\ 4 & -1 & -5 & 6 \\ 2 & 3 & 1 & -2 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \\ w \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}$$

If consistent, solve the system.

(6)

(b) Use Simplified Span Method to find a simplified general form for all the vectors in $\text{span}(S)$, where $S = \{[1, -1, 1], [2, -3, 3], [0, 1, -1]\}$ is a subset of \mathbb{R}^3 . (6)

(c) Let $B = \{[1, -2, 1], [5, -3, 0]\}$ and

$S = \{[1, -2, 1], [3, 1, -2], [5, -3, 0], [5, 4, -5], [0, 0, 0]\}$ be subsets of \mathbb{R}^3 .

(i) Show that B is a maximal independent subset of S .

(ii) Calculate $\dim(\text{span}(S))$.

(iii) Does $\text{span}(S) = \mathbb{R}^3$? Justify. (6)

(d) Use the Independence Test Method to show that the subset

$S = \{x^2 + x + 1, x^2 - 1, x^2 + 1\}$ of P_2 is linearly independent. (6)

4. (a) (i) Let $f: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ be given by

$$f\left(\begin{bmatrix} x \\ y \end{bmatrix}\right) = \begin{bmatrix} 1 & k \\ 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} x + ky \\ y \end{bmatrix}.$$

Show that f is a linear operator.

- (ii) Let V be a vector space, and let $x \neq 0$ be a fixed vector in V . Prove that the translation function $f: V \rightarrow V$ given by $f(v) = v + x$ is not linear. (6.5)

- (b) Let $S = \{[1,2], [0,1]\}$ and $T = \{[1,1], [2,3]\}$ be bases for \mathbb{R}^2 . Let $v = [1,5]$.

- (i) Find the coordinate vector of v with respect to the basis T .

- (ii) What is the transition matrix $P_{S \leftarrow T}$ from the basis T to the basis S .

- (iii) Find the coordinate vectors of v with respect to S using $P_{S \leftarrow T}$. (6.5)

- (c) Suppose $L: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ is a linear operator and $L([1,0,0]) = [-3,2,4]$, $L([0,1,0]) = [5,-1,3]$ and $L([0,0,1]) = [-4,0,-2]$. Find $L([6,2,-7])$. Find $L([x, y, z])$, for any $[x, y, z] \in \mathbb{R}^3$. (6.5)

- (d) Let $L: \mathbb{R}^3 \rightarrow \mathbb{R}^2$ defined by

$$L\left(\begin{bmatrix} x \\ y \\ z \end{bmatrix}\right) = \begin{bmatrix} -2 & 0 & 3 \\ 1 & 2 & -1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

be a linear transformation and $B = \{[1, -3, 2], [-4, 13, -3], [2, -3, 20]\}$ and $C = \{[-2, -1], [5, 3]\}$ be bases for \mathbb{R}^3 and \mathbb{R}^2 , respectively. Find the matrix A_{BC} of L w.r.t. B and C . (6.5)

5. (a) Consider the linear transformation $L: \mathbb{R}^3 \rightarrow \mathbb{R}^2$ given by

$$L([x, y, z]) = [x + y, y + z]. \text{ Show that } L \text{ is onto but not one to one.} \quad (6)$$

- (b) Find the minimum distance from the point $P(1, 4, -2)$ to the subspace $W = \text{span} \{[x, y, z]: -2x + 5y - z = 0\}$ of \mathbb{R}^3 . (6)

- (c) Find a least squares solution for the linear system $AX = B$, where

$$A = \begin{bmatrix} 5 & 2 \\ 3 & 1 \\ 4 & 3 \end{bmatrix}, \quad B = \begin{bmatrix} 12 \\ 15 \\ 14 \end{bmatrix} \quad (6)$$

- (d) Consider a polygon associated with 2×5 matrix

$$\begin{bmatrix} 8 & 8 & 6 & 8 & 10 & 10 \\ 6 & 8 & 10 & 12 & 10 & 6 \end{bmatrix}. \text{ Use ordinary coordinates}$$

in \mathbb{R}^2 to find the new vertices after performing each indicated operation :

- (i) translation along the vector $[12, 6]$.
- (ii) rotation about the origin through $\theta = 90^\circ$.
- (iii) reflection about the line $y = -3x$.
- (iv) scaling about the origin with scale factors of $1/2$ in the x -direction and 4 in the y -direction. (6)

6. (a) Let $L: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ be the Linear Operator given by

$$L \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{bmatrix} -4 & 2 & 6 \\ 1 & 1 & -3 \\ 2 & 0 & -4 \end{bmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}$$

Find the basis for $\text{Ker}(L)$ and basis for $\text{Range}(L)$.

Verify Dimension Theorem. (6.5)

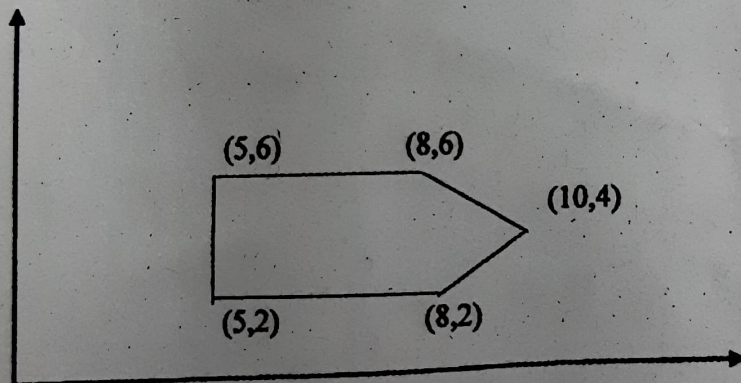
- (b) For the subspace $W = \{[x, y, z]: -x + 4y - 2z = 0\}$ of \mathbb{R}^3 , find W^\perp , the orthogonal complement of W .
Verify $\dim(W) + \dim(W^\perp) = \dim(\mathbb{R}^3)$. (6.5)

- (c) Verify that the given ordered basis B is orthonormal. Hence, for the given v , find $[v]_B$

$$\text{where } v = [-2, 3], \quad B = \left\{ \begin{bmatrix} -\sqrt{3} \\ 2 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \end{bmatrix} \right\} \begin{bmatrix} 1 \\ 2 \end{bmatrix}, \begin{bmatrix} \sqrt{3} \\ 2 \end{bmatrix} \right\}.$$

(6.5)

- (d) For the given graphic, use homogeneous coordinates to find the new vertices after performing a scaling about (2,2) with scale factor of 2 in x-direction and 3 in y-direction. Sketch the final figure resulting from the movement.



(6.5)

10
[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1104

B

Unique Paper Code : 32345202

Name of the Paper : Database Management Systems

Name of the Course : Generic Elective (Computer Science)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Question No. 1 is compulsory in Section – A.
3. Attempt any five questions from Section – B.
4. Parts of the question must be attempted together.

SECTION – A

1. (a) Write down three characteristics of relations that make it different from regular tables and files.

(3)

P.T.O.

(b) Write and draw the symbols used in Entity Relationship diagram for following : (4)

- (i) To relate two entity-types
- (ii) To represent multi-valued attribute
- (iii) To represent derived attribute
- (iv) To represent weak entity type

(c) A STUDENT table has following two attributes RollNo and Course. Write an SQL statement to insert a new attribute Grade to the STUDENT table. (2)

(d) Explain the different types of user-friendly interfaces and list the types of users who typically use each? (3)

(e) What is a transaction? List any two properties of a transaction. (2)

(f) For the given table, write down its degree, cardinality and identify two candidate keys. (4)

<i>EMP-SSN</i>	<i>EMP-Name</i>	<i>Date of Birth</i>	<i>Telephone</i>
<i>E1</i>	<i>Smith John</i>	<i>11/03/1997</i>	<i>9999999988</i>
<i>E2</i>	<i>Hood Robert</i>	<i>12/06/1977</i>	<i>9988999988</i>
<i>E3</i>	<i>Brit Paul</i>	<i>12/04/1967</i>	<i>8889999999</i>
<i>E4</i>	<i>Annie W</i>	<i>01/09/1978</i>	<i>8899999777</i>
<i>E5</i>	<i>Brit Paul</i>	<i>01/10/1979</i>	<i>9889999999</i>

- (g) What is the need of allowing NULL value in foreign key? (2)
- (h) Given a relational scheme $R(A,B,C,D,E)$ with FDs $F=\{A \rightarrow B, B \rightarrow C, AC \rightarrow D, AC \rightarrow BC\}$. Identify new functional dependency using transitivity and an existing functional dependency which follows augmentation rule. (2)
- (i) What do you mean by Data Independence and how it is useful in database system? (3)

SECTION - B

2. (a) Who are parametric end users? What kind of transactions do they use? (4)

- (b) Given the relational schema $R(A,B,C,D,E,F,G,H,I,J)$ and the following set of functional dependencies. (6)

$\{\{A,B\} \rightarrow \{C\}, \{B,D\} \rightarrow \{E,F\}, \{A,D\} \rightarrow \{G,H\}, \{A\} \rightarrow \{I\}, \{H\} \rightarrow \{J\}\}$

- (i) Derive the primary key for R.
- (ii) What normal form is the relation R in?

- (iii) Apply normalization to bring it to 3NF if required. State the reason behind each decomposition.

3. (a) Specify the Cardinality (1:1 / 1:N / M:N) for the following binary relationships based on the meaning of the entity types : (5)

(i) Student and Roll-No

(ii) Course and Textbook

(iii) Class and Instructor

(iv) Student and Class

(v) Student and Instructor

- (b) What is partial dependency? Explain with example. Which kind of problem arises if non-prime attributes are partially dependent on the primary key? (3)

- (c) Why should NULL in a relation be avoided as far as possible? (2)

4. (a) What are the responsibilities of Database Administrator (DBA) and Database designers? (4)

- (b) Identify multivalued and composite attributes from the following complex attribute. (6)

$\{Add_ph(\{Ph(Area_code, Ph_number)\}, Add(Street_add(Number, Street, Apartment_number), City, State, Zip))\}$

5. (a) Consider the following schema COMPANY to answer the given questions : (6)

PROJ(Pnmuber, Pname, Manager-number)

EMP(Empno, Empname, hiredate)

ASSIGNED(Pnumber, Empnumber, Hours)

- (i) Find foreign keys of each table (if any) in the given schema.
- (ii) Give one example of violation of entity integrity constraint while insertion in PROJ table.
- (iii) Give one example of an insertion in ASSIGNED table that violates Referential Integrity Constraint.

- (b) Consider a relation $R(A,B,C,D,E,F,G,H)$ with the following functional dependencies : (4)

$\{A \rightarrow B, BC \rightarrow DE, AD \rightarrow GH\}$.

List all possible super keys of the given relation.

6. Consider the following schema about a COMPANY to answer the given questions : (10)

EMPLOYEE (Name, Ssn, Bdate, Address, Gender, Salary, SuperSsn, Dno)

DEPARTMENT(Dname, Dnumber, MgrSsn, MgrStartDate)

DEPENDENT(Essn, DependentName, Gender, Bdate, Relationship)

Write the following SQL queries :

- (i) Give all the employees of the company 20 percent rise.
- (ii) Retrieve the birthdate and address of the employee whose name is 'Franklin T. Wong'.
- (iii) Retrieve all employees in department 5 whose salary is between 50,000 and 60,000 (inclusive).
- (iv) Retrieve the names of all employees who do not have supervisors.

- (v) Retrieve the name and address of all employees who work for the 'Research' department.
7. (a) Draw three tier architecture supported by DBMS. Briefly explain each level. What is the need of mapping between two levels? (4)
- (b) Discuss insertion, deletion and modification anomalies. Why are they considered bad? Illustrate with examples. (6)
8. Consider the following set of requirements for a University database (10)
- A university has many departments.
 - Each department has multiple instructor; one among them is the head of the department.
 - An instructor belongs to only one department.
 - Each department offers multiple courses, each of which is taught by a single instructor.
 - A student may enrol for many courses offered by different departments.

For the given problem, Identify :

- (i) Entities of interest.
- (ii) Essential attributes associated with each entity.
- (iii) Relationship existing among entities and their cardinality and participation constraints.
- (iv) Draw the corresponding ER diagram.

[This question paper contains 4 printed pages.]

Your Roll No.....

B

Sr. No. of Question Paper : 1179

Unique Paper Code : 32225201

Name of the Paper : Mechanics

Name of the Course : B.Sc. Hons. - CBCS_GE

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
 2. Attempt Five questions in all.
-
1. (a) What are polar and axial vectors? Give examples.
(b) For given vectors $\vec{A} = 5\hat{i} - 7\hat{j} + 3\hat{k}$ and $\vec{B} = -4\hat{i} + 4\hat{j} - 8\hat{k}$. Find $\vec{A} \times \vec{B}$ and $\vec{A} \cdot \vec{B}$.
(c) Find the directional derivative of scalar function $\phi(x, y, z) = x^2 + xy + z^2$ at point A(2, -1, -1).

P.T.O.

(d) Solve the following differential equations.

(i) $\frac{dy}{dx} = e^{x-y} + x^2 e^{-y}$

(ii) $\frac{d^2y}{dx^2} - 6\frac{dy}{dx} + 9y = 0$ (4+3+2+6)

2. (a) Establish the fundamental equation for the motion of a rocket. Find the expression for velocity if the rocket ascends from rest in a uniform gravitational field by ejecting the fuel gas at the rate $\frac{dm}{dt} = -\alpha$ and with constant exhaust speed u .

(b) Show that during a perfectly inelastic collision in the laboratory system kinetic energy is always lost. (10+5)

3. (a) Define moment of inertia and radius of gyration. State parallel axis theorem for moment of inertia.

(b) Derive the expression for the moment of inertia of a solid sphere about one of its diameters.

(c) A particle of mass m moves along the curve

$\vec{r} = 6t^2\hat{i} - 3t\hat{j} + 5\hat{k}$. Find its angular momentum.

(5+6+4)

4. (a) What are central forces? Give examples. Show that for a central force the angular momentum is conserved.
- (b) What is a satellite? Deduce the time period of a satellite in circular orbit. Describe some of the applications of artificial satellites around Earth.
- (c) Calculate the escape velocity on the Moon, taking its mass as 7.3×10^{22} kg and radius as 1.7×10^6 m.
($G = 6.6 \times 10^{-11}$ Nm²/kg) (5+7+3)
5. (a) What do you understand by simple harmonic motion? Obtain the differential equation for simple harmonic motion and solve it. Also find the expression for time period.
- (b) Find the time period and frequency of vertical oscillations of a block hanging from a spring. The mass of the block is 1 kg and it stretches the spring by 7 cm at equilibrium. (10+5)
6. (a) State and prove the work energy theorem.
- (b) What is a conservative force? How is it related to potential energy?

- (c) What is the center of mass? Show that the velocity of the center of mass of a system remains unchanged if the external force is zero.

(5+5+5)

7. (a) Derive formulas for length contraction and time dilation. Discuss one example of time dilation in a naturally occurring phenomena.

- (b) Rockets A and B are observed from Earth to be travelling with speeds $0.7c$ and $0.8c$ respectively in the same direction. What is the velocity of B as seen by an observer in A?

(10+5)

[This question paper contains 8 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 2551

A

Unique Paper Code : 32355202-OC

Name of the Paper : GE-2 Linear Algebra

Name of the Course : Generic Elective

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any two parts from each question.

1. (a) If x and y are vectors in \mathbb{R}^n , then prove

(i) $\|x + y\| \leq \|x\| + \|y\|$

(ii) $\frac{1}{2} (\|x + y\|^2 - \|x - y\|^2) = \|x\|^2 + \|y\|^2$

(6)

P.T.O.

(b) Prove by Induction: if $x_1, x_2, \dots, x_{n-1}, x_n$ (for $n \geq 1$) are vectors in \mathbb{R}^n , then

$$x_1 + x_2 + \dots + x_{n-1} + x_n = x_n + x_{n-1} + \dots + x_2 + x_1.$$

(6)

(c) Decompose the following matrix as the sum of a symmetric and a skew-symmetric matrix :

$$\begin{bmatrix} -4 & 2 & 5 \\ 6 & 3 & 7 \\ -1 & 0 & 2 \end{bmatrix}$$

(6)

(d) Solve the following system of linear equations using Gauss-Jordan method.

$$3x_1 + x_2 - 2x_3 = 8.$$

$$4x_1 - x_3 = -1$$

$$2x_1 - 3x_2 + 5x_3 = -32$$

(6)

2. (a) Find the rank of the following matrix :

$$\begin{bmatrix} 3 & 5 & 2 \\ 4 & 2 & 3 \\ -1 & 2 & 4 \end{bmatrix}$$

(6.5)

- (b) Determine whether the vector $[4, 0, -3]$ is in row space of the matrix

$$A = \begin{bmatrix} 3 & 1 & 1 \\ 2 & -1 & 5 \\ -4 & -3 & 3 \end{bmatrix}$$

If so, then express $[4, 0, -3]$ as a linear combination of the rows of A. (6.5)

- (c) Find the characteristic polynomial of the matrix

$$A = \begin{bmatrix} 7 & 1 & -1 \\ -11 & -3 & 2 \\ 18 & 2 & -4 \end{bmatrix}$$

Also find all the eigenvalues and eigenspaces for A. (6.5)

- (d) Show that the set R^2 with the usual scalar multiplication but with vector addition given by $[x, y] \oplus [w, z] = [x + w, 0]$ does not form a vector space. (6.5)

3. (a) Show that the set of vectors of the form $[2a-3b, a-5c, a+4c-b, c]$ in R^4 form a subspace of R^4 under the usual operations. (6)

(b) Prove that the set $S = \{[1, -2, 2], [3, -4, -1], [1, -4, 9], [0, 2, -7]\}$ does not span \mathbb{R}^3 . (6)

(c) Prove that the set $B = \{[1, 2, 1], [2, 3, 1], [-1, 2, -3]\}$ is a basis of \mathbb{R}^3 by showing that it both spans \mathbb{R}^3 and is linearly independent. (6)

(d) Find the basis and dimension for the subspace W for \mathbb{R}^3 spanned by the set $S = \{[3, 2, 1], [1, 2, 0], [-1, 2, -1]\}$ of three vectors. (6)

4. (a) Consider the following ordered bases for \mathbb{R}^3 :

$$S = \{v_1 = [1, 2, 3], v_2 = [-2, 1, 0], v_3 = [1, 0, 1]\}$$

and

$$T = \{w_1 = [1, 1, 0], w_2 = [0, 1, 2], w_3 = [1, 1, 1]\}$$

Find the transition matrix $P_{S \leftarrow T}$. (6.5)

(b) (i) Let V be a vector space and $a \neq 0$ be a fix vector in V . Prove that the mapping $g: V \rightarrow V$ given by $g(v) = a + v$ is not linear.

(ii) Show that the mapping $L: \mathbb{R}^2 \rightarrow \mathbb{R}^2$ given by

$$L\left(\begin{bmatrix} x \\ y \end{bmatrix}\right) = \begin{bmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix}$$

is a linear operator.

(3+3.5)

(c) If $B = \{v_1, v_2, \dots, v_k\}$ is an orthogonal basis for the subspace W of \mathbb{R}^n , prove that if B is enlarged to an orthogonal basis $\{v_1, v_2, \dots, v_k, v_{k+1}, \dots, v_n\}$ for \mathbb{R}^n , then $\{v_{k+1}, \dots, v_n\}$ is an orthogonal basis for W^\perp .

(6.5)

(d) Use the similarity method and find the matrix represented by rotation about the point $(1,0)$ through the angle $\theta = 45^\circ$, followed by a reflection about the line $y = x$.

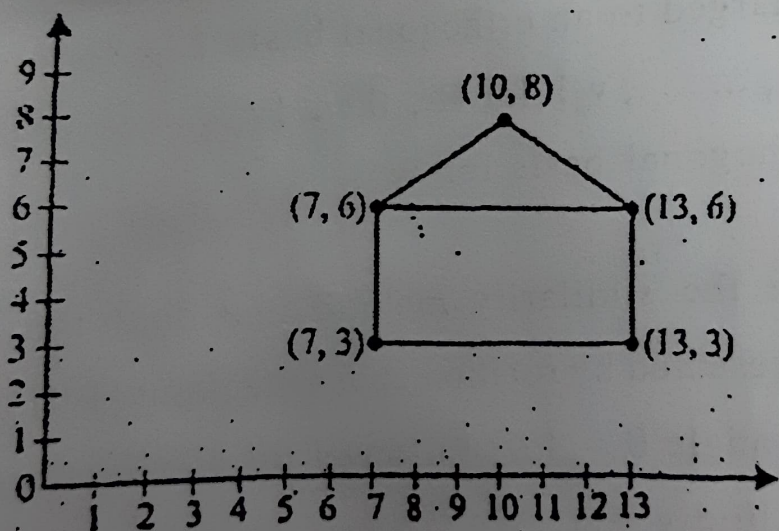
(6.5)

5. (a) For the linear transformation $L: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ given by

$$L\left(\begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}\right) = \begin{bmatrix} -7 & 4 & -2 \\ 16 & -7 & 2 \\ 4 & -3 & 2 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}$$

find a basis for $\ker(L)$ and a basis for $\text{range}(L)$.
Also verify the dimension theorem. (6)

- (b) For the adjoining graphic, use homogeneous coordinates to find the new vertices after performing a reflection about the line $y = 4x - 10$. Then sketch the final figure that would result from this movement. (6)



- (c) For the subspace $W =$ the plane $2x - 2y + z = 0$ of \mathbb{R}^3 and $v = [1, -4, 3]$ find $\text{proj}_W v$. Decompose v into $w_1 + w_2$ where $w_1 \in W$ and $w_2 \in W^\perp$. (6)

- (d) Find the minimum distance from the point $P(4, 1, -3)$ to the subspace $W = \text{span}\{[x, y, z] : 2x - y + 2z = 0\}$ in \mathbb{R}^3 . (6)

6. (a) Let $T: \mathbb{R}^3 \rightarrow \mathbb{R}^3$ be the linear operator defined by $T(v) = Av$, where

$$A = \begin{bmatrix} 0 & 3 & -1 \\ 1 & 0 & 0 \\ 0 & -2 & 1 \end{bmatrix}$$

Is T an isomorphism? Justify your answer.

(6.5)

- (b) Find a basis for the orthogonal complement W^\perp of the subspace $W = \{[x, y, z] \in \mathbb{R}^3 : -2x + 5y - z = 0\}$ of \mathbb{R}^3 and verify that $\dim(W) + \dim(W^\perp) = \dim(\mathbb{R}^3)$ (6.5)

- (c) If $A = \begin{bmatrix} 1 & -1 \\ 4 & 1 \\ 2 & 3 \end{bmatrix}$, $b = \begin{bmatrix} 0 \\ 4 \\ 5 \end{bmatrix}$, $z = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$. Find vector v

satisfying the inequality $\|Av - b\| \leq \|Az - b\|$

(6.5)

(d) If W is a subspace of \mathbb{R}^n , prove that $W \cap W^\perp = \{0\}$
and $(W^\perp)^\perp = W$. (6.5)

[This question paper contains 10 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4321 A
Unique Paper Code : 12275201
Name of the Paper : Introductory Macroeconomics II
Name of the Course : CBCS (Economics) G.E. – 2 GE OP
Semester : II / I
Duration : 3½ Hours Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any four questions.
3. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।
2. कोई चार प्रश्न हल करें।
3. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

P.T.O.

1. (a) How can National Savings, Private Savings and Government Savings be calculated? What will happen if government deficit increases?
- (b) What precautions should be kept in mind while calculating national income?
- (c) What is GDP deflator? How is it different from consumer price index? How does CPI inflation overstate the increases in cost of living?
- (d) With the help of data given below, calculate the rate of inflation for each year from 2014 to 2017, considering 2013 as base :

Year	2013	2014	2015	2016	2017
CPI	600	615	650	645	660

(5.75, 4, 5, 4)

- (अ) राष्ट्रीय बचत, निजी बचत और सरकारी बचत की गणना कैसे की जा सकती है? सरकारी घाटा बढ़ने पर क्या होगा?
- (ब) राष्ट्रीय आय की गणना करते समय किन सावधानियों को ध्यान में रखना चाहिए?
- (स) जीडीपी डिफ्लेटर क्या है? यह उपभोक्ता मूल्य सूचकांक से किस प्रकार भिन्न है? सीपीआई मुद्रास्फीति जीवनयापन की लागत में वृद्धि को कैसे बढ़ा देती है?

- (द) नीचे दिए गए आंकड़ों की सहायता से, 2014 से 2017 तक प्रत्येक वर्ष के लिए मुद्रास्फीति की दर की गणना करें, 2013 को आधार मानते हुए :

Year	2013	2014	2015	2016	2017
CPI	600	615	650	645	660

2. (a) How is the rate of interest determined by the demand and supply of money (assuming no banks in economy)? What happens to the interest rate if:

(i) Nominal income falls

(ii) Central bank chooses for expansionary open market operation.

- (b) "What are determined in bond markets are not interest rates, but bond prices. In this context distinguish between expansionary and contractionary open market operations. How do they affect the balance sheet of central bank and bond prices and interest rates?

- (c) The following financial market data is given for an economy (in rupees): Currency = 5000; Reserves = 1000; Deposits = 10000.

(i) Calculate size of money multiplier

(ii) Monetary Base

(iii) Money Supply

(7,6.5.75)

(अ) मुद्रा की मांग और आपूर्ति (अर्थव्यवस्था में कोई बैंक नहीं मानते हुए) द्वारा ब्याज की दर कैसे निर्धारित की जाती है? ब्याज दर का क्या होगा यदि :

(i) नाममात्र की आय गिरती है

(ii) केंद्रीय बैंक विस्तारवादी खुले बाजार संचालन के लिए चुनता है।

(ब) “बॉन्ड बाजारों में जो निर्धारित किया जाता है वह ब्याज दरें नहीं होती हैं, बल्कि बांड की कीमतें होती हैं। इस संदर्भ में विस्तारक और संकुचनकारी खुले बाजार के संचालन के बीच अंतर करें। वे केंद्रीय बैंक की बैलेंस शीट और बांड की कीमतों और व्याज दरों को कैसे प्रभावित करते हैं?”

(स) निम्नलिखित वित्तीय बाजार डेटा एक अर्थव्यवस्था (रुपये में) के लिए दिया गया है : मुद्रा = 5000; रिजर्व = 1000; जमा = 10000 ।

(i) धन गुणक के आकार की गणना करें

(ii) मौद्रिक आधार

(iii) मुद्रा आपूर्ति

3. (a) Explain the concept and causes of Hyperinflation? Suggest policies that the government can use to control Hyperinflation.

(b) Comment on the following statements. Justify your answer.

(i) The Inflation Tax is always equal to seigniorage.

(ii) An increase in the rate of interest leads to an increase in the price of bonds.

(c) Calculate the money growth rate required to finance the budget deficit of Rs. 10000 in an economy. Given the following information :

Income (Y) = Rs. 1,00,000

Nominal Money Supply (M) = Rs. 80000

Price Level (P) = Rs. 20 (7,6,5.75)

(अ) हाइपरइन्फ्लेशन की अवधारणा और कारणों की व्याख्या करें? उन नीतियों का सुझाव दें जिनका उपयोग सरकार हाइपरइन्फ्लेशन को नियंत्रित करने के लिए कर सकती है।

(ब) निम्नलिखित कथनों पर टिप्पणी करें। आपने जवाब को न्यायसंगत भी सिद्ध करें।

- (i) मुद्रास्फीति कर हमेशा seigniorage के बराबर होता है।
- (ii) ब्याज दर में वृद्धि से बांड की कीमत में वृद्धि होती है।
- (स) एक अर्थव्यवस्था में 10000 रुपये के बजट घाटे के वित्तपोषण के लिए आवश्यक धन वृद्धि दर की गणना करें। निम्नलिखित जानकारी को देखते हुए :

$$\text{आय (Y)} = \text{रु. } 1,00,000$$

$$\text{नाममात्र धन आपूर्ति (M)} = \text{रु. } 80,000$$

$$\text{मूल्य स्तर (P)} = \text{रु. } 20$$

4. (a) In the Classical Model, an autonomous decline in investment leads to a fall in the overall demand in the economy. Explain, with the help of a diagram, whether you agree or disagree.

- (b) How is the labour demand curve derived under classical model? (10,8.5)

(अ) पारम्परिक मॉडल में, निवेश में एक स्वायत्त गिरावट से अर्थव्यवस्था में समग्र मांग में गिरावट आती है। आरेख की सहायता से स्पष्ट कीजिए कि आप सहमत हैं या असहमत।

(ब) पारम्परिक मॉडल के तहत श्रम मांग वक्र कैसे प्राप्त किया जाता है?

5. (a) Examine the impact of a contractionary fiscal policy on output & interest rate under two assumptions :

(i) Interest rates are kept constant

(ii) Money stock is kept constant

(b) What is liquidity trap? Is monetary policy ineffective in this case?

(c) Explain why the income tax system or social security system are considered automatic stabilizers?

(d) Consider the following Keynesian model:

Suppose full employment output (Y^*) = 1000, Actual Output (Y) = 1100, Government purchase of goods and services (G) = 200, Transfers (Tr) = 20 and Taxes = $0.20Y$. Compute (i) Actual Budget Surplus and (ii) full employment budget surplus. (7,3,4,4.5)

(अ) दो मान्यताओं के तहत उत्पादन और व्याज दर पर एक संकुचन राजकोषीय नीति के प्रभाव की जांच करें :

- (i) ब्याज दरों को स्थिर रखा जाता है
- (ii) मनी स्टॉक स्थिर रखा जाता है
- (ब) तरलता जाल क्या है? क्या इस मामले में मौद्रिक नीति अप्रभावी है?
- (स) स्पष्ट करें कि आयकर प्रणाली या सामाजिक सुरक्षा प्रणाली को स्वचालित स्टेबलाइजर्स क्यों माना जाता है?
- (द) निम्नलिखित केनेसियन मॉडल पर विचार करें:

मान लीजिए कि पूर्ण रोजगार उत्पादन (Y^*) = 1000, वास्तविक उत्पादन (Y) = 1100, वस्तुओं और सेवाओं की सरकारी खरीद (G) = 200, स्थानान्तरण (Tr) = 20 और $c = 0.20Y$ । गणना कीजिये (i) वास्तविक बजट अधिशेष और (ii) पूर्ण रोजगार बजट अधिशेष।

6. (a) How does an increase in autonomous spending affect the equilibrium level of income? Explain using 1S-LM analysis.
- (b) Under what circumstances can the LM curve be vertical? Use suitable diagram to explain.
- (c) What are the factors determining the slope of an IS curve?

(d) Given the following information :

$$\text{Consumption } C = 100 + 0.75Y_d$$

$$\text{Investment } I = 200 - 8i$$

$$\text{Government Spending } G = 150$$

$$\text{Tax } T = 0.2Y$$

$$\text{Money Supply } M = 400$$

$$\text{Real Demand for Money } L = 0.4Y - 2i$$

(i) Compute the IS and LM functions and equilibrium level of income and rate of interest.

(ii) If the government spending increases by 50, explain the changes in the IS curve with the help of the multiplier formula.

(6,4,4,4.5)

(अ) स्वायत्त खर्च में वृद्धि आय के संतुलन स्तर को कैसे प्रभावित करती है? IS-LM विश्लेषण का प्रयोग करते हुए समझाइए।

(ब) LM वक्र किन परिस्थितियों में लंबवत हो सकता है? समझाने के लिए उपयुक्त आरेख का प्रयोग कीजिए।

(स) IS वक्र के ढलान को निर्धारित करने वाले कारक क्या हैं?

4321

10

(द) निम्नलिखित जानकारी को देखते हुए :

$$\text{खपत } C = 100 + 0.75Y_d$$

$$\text{निवेश } I = 200 - 8i$$

$$\text{सरकारी खर्च } G = 150$$

$$\text{कर } T = 0.2Y$$

$$\text{मुद्रा आपूर्ति } M = 400$$

$$\text{पैसे की वास्तविक मांग } L = 0.4Y - 2i$$

(i) IS और LM कार्यों और आय के संतुलन स्तर और ब्याज दर की गणना करें।

..

(ii) यदि सरकारी व्यय में 50 की वृद्धि होती है, तो गुणक सूत्र की सहायता से IS वक्र में होने वाले परिवर्तनों की व्याख्या कीजिए।

[This question paper contains 2 printed pages.]

P

Your Roll No.....

A

Sr. No. of Question Paper : 4324

Unique Paper Code : 12035902

Name of the Paper : GE: Media and Communication Skills

Name of the Course : B.A. (Hons.)

Semester : II / IV

Duration : 3 hours 30 Minutes Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

PART A

Answer any **three** questions from this part. Each question carries 10 marks

1. What are the objectives of Advertising? Elaborate.
2. Enumerate the basic rules one must keep in mind while writing Television News.
3. How does Radio compare with Television as a medium of Mass Communication?

P.T.O.

4. Elaborate on the disadvantages of Social-Media as a means of Communication?
5. What are the main objectives of the Press Council of India?

PART B

Answer any **three** questions from this part. Each question carries **15** marks

6. Create a media campaign to spread awareness against indiscriminate use of plastic.
7. Create a blog on recent stories of women who have overcome societal obstacles to achieve their aims.
8. Write an editorial on the Constitutional rights of citizens.
9. Generate a poster campaign in college to promote green and clean practices.
10. Write a script for a radio interview with a famous sportsperson.

[Type here]

[Type here]
Set B

Unique Paper Code: 12035901

Sl. No. of the Ques. Paper
Unique Paper Code
Name of the Paper
Name of the Course
Semester
Duration
Maximum Marks

: 4327
: 12035901
: Academic Writing and Composition
: Generic Elective
: II/IV
: 3 hours 30 minutes
: 75

The paper has two parts, A and B. Three questions have to be attempted from each part.

All questions are compulsory.

Answer any THREE of the following questions. Give suitable examples to illustrate your answers. Each question carries 10 marks. (3X10 = 30)

PART A

1. Compare and contrast the four main types of writing. Which is the kind of writing most frequently used while writing for academic purposes and why?
2. Establish the relationship between critical thinking and academic writing with suitable examples.
3. What is a thesis statement? Why is it important to an academic essay?
4. Why is editing an important step before finalising an academic paper? What are some of the steps involved in revising and editing?
5. What is plagiarism? Does it have any consequences? Explain with examples.

PART B

Answer any THREE of the following questions. Each question carries 15 marks. (3X15 = 45 marks)

6. Write a summary of the following speech and give it a suitable title. (12+3 = 15 marks)

It is easily visible in recent times that the Indian nation-state is proudly celebrating Babasaheb Ambedkar as a heroic individual, as an apostle of great virtues. It has adopted him as one of the leading nationalist icons.

The right-wing too has tried to appropriate Ambedkar as a Hindu social reformer and embraced him as a crucial part of Hindu cultural diversity. There is a new Left-Liberal academic scholarship that presents Ambedkar as a nation builder and wanted to locate his influential presence in the arena of grand philosophy or intellectual tradition. There is a general interest to suggest that Ambedkar shall be liberated from the narrow 'Dalit ghetto' and placed into the high echelons of great minds or in the domain of universal philosophy. Ambedkar was not only a Dalit leader or just an emotive voice in the politics of social justice. He was surely above such categorisations – he has demonstrated commendable leadership on pressing working-class issues and his critical engagement with Marxist-Socialist ideas is vital. As a labour minister in the Viceroy's Council, he offered numerous benefits to the labour classes on demands of having eight-hour working days, equal wages and maternity leave.

[Type here]

[Type here]
Set B

Unique Paper Code: 12035901

Further, in strengthening the struggles for women's liberation in India, his contributions are highly valued. Least to mention that Ambedkar as a constitutionalist showed tremendous charisma and political vision to establish India as modern democratic republic. As an organic intellectual, his thoughts are crucial to understand key political concepts like citizenship, liberty, equality and justice.

In the making of Ambedkar as a national hero or a political philosopher, the discussion often deviates from the core social and political objectives that he engaged with during his lifetime. It is Ambedkar's fight to liberate the Dalits from the shackles of untouchability and his struggle against the oppressive Brahmanical caste system that has crafted his political or intellectual persona. More than the concerns for nation-building, constitutionalism or even the issues of normative philosophy, he was firmly engaged and committed to rectify the brutal actualities of the caste society and wanted to radically transform it into a better human world. It will be a disservice to Ambedkar and to his intellectual oeuvre if we neglect the fundamental questions of caste and untouchability, and applaud him as an abstract national hero.

7. The following is the introduction to an essay. Read it carefully and continue the essay, writing two body paragraphs and a suitable conclusion. **(15 Marks)**

Online learning affects everyone from young children to young adults, teachers, and professors. For many students, virtual classes may worsen existing mental health disorders. For others, the impact of the pandemic and online learning can trigger new changes in mental health and mood. While primarily a place of education, school is also the center of many teens' social lives. School offers teenagers and young adults an opportunity to connect with their peers. It's an opportunity for them to socialize and express themselves. However, with schools and colleges moving to virtual formats, teens may feel lonely, unmotivated, or discouraged without regular social interaction.

8. Edit and proof read the following passage and then rewrite it, incorporating all the corrections:

Numerous benefits can be detained through using celebrities such as making products memorable, creating positive image, raising the brand's familiarity and recognition, attracted the attention of Elite customers, and underpinning global campaigns or local providers. It important therefore to investigate the role of celebrity gourmets and chefs as an marketing tool to evaluate impact of those individuals in culinary destination marketing. Gourmets & chefs are traditionally accepted as celebrities who has usually developed "expertise in food and beverage entitling them to influence and direct trends in modern gastronomy (Svejenova, et al. 2015. Therefore, flavour creative chefs and the gourmets who can inspire and attract potential, customers have a central role in creating the product (meal) and therefore: generating greater revenues for businesses and eventually for destinations

9. Write an essay on the following Thesis Statement. **(15 marks)**
"Intolerance is the bane of society today."

10. Create a bibliography using the following resources. First use a citation convention to rewrite the details of each source and then arrange the five sources in the correct sequence.

[Type here]

[Type here]

Unique Paper Code: 12035901

Set B

(10+5 = 15 marks)

- Sidonie Smith and Julia Watson's book *Reading Autobiography: A Guide for Interpreting Life Narratives*, published in Minneapolis and London by University of Minnesota Press in 2001, is now available as an e-book.
- The Autobiographical Pact, Philippe Lejeune's seminal essay on autobiography, can be found in the book *On Autobiography* edited by Paul John Eakin. It has been published in Minneapolis by University of Minnesota Press in 1989. It can be accessed on Google Books, pages 3-30.
- Robert Harris has written *A Glossary of Literary Terms* on the website VirtualSalt. The entry was first published on 15 June 2008, and last accessed on 4 Jul 2010 at <http://www.virtualsalt.com/evalu8it.htm>.
- Marjane Satrapi's *Persepolis: The Story of a Childhood* has been translated by L'Association and published by Pantheon in 2003 in New York.
- Alison Bechdel's graphic narrative *Fun Home: A Family Tragicomic* was published in 2006 in London by Jonathan Cape.

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[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4346

A

Unique Paper Code : 12295201

Name of the Paper : SPATIAL INFORMATION
TECHNOLOGY (GE)

Name of the Course : B.A. (Hons.)

Semester : II

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt all questions. All questions carry equal marks.
3. Use of stencil is allowed for drawing outline of maps.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।
2. सभी प्रश्नों का उत्तर दें। सभी प्रश्नों के अंक समान हैं।

3. मानचित्र की बाहरी रेखा खींचने के लिए स्टेंसिल के प्रयोग की अनुमति है।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

1. Discuss in detail the historical development of spatial information technology.

स्थानिक सूचना प्रौद्योगिकी के ऐतिहासिक विकास का विस्तार में उल्लेख करें।

Or / (अथवा)

What do you mean by spatial information technology and discuss its major components.

स्थानिक सूचना प्रौद्योगिकी से आप क्या समझते हैं और इसके प्रमुख तत्वों की व्याख्या करें।

2. Explain different web data sources used in spatial information technology?

स्थानिक सूचना प्रौद्योगिकी में प्रयोग होने वाले विभिन्न वेब आंकड़ा स्रोतों का उल्लेख करें।

Or / (अथवा)

Differentiate between raster and vector data structure.

रास्टर एवं वेक्टर आंकड़ा संरचना में अंतर स्पष्ट कीजिये।

3. Explain the process of functioning of spatial information technology.

स्थानिक सूचना प्रौद्योगिकी की कार्यप्रणाली की प्रक्रिया का वर्णन करें।

Or / (अथवा)

Explain network analysis in detail. Discuss its use in daily life.

तंत्र विश्लेषण का विस्तार पूर्वक वर्णन कीजिए। दैनिक जीवन में इसके उपयोग की चर्चा कीजिए।

4. Discuss the major areas where spatial information technology can be helpful for sustainable development.

स्थानिक सूचना प्रौद्योगिकी के प्रमुख प्रायोगिक क्षेत्रों का वर्णन करें जो शाश्वत विकास में मददगार हों।

Or / (अथवा)

Discuss the working environment process in spatial information technology.

स्थानिक सूचना प्रौद्योगिकी में कार्य प्रक्रिया के वातावरण की चर्चा करें।

5. Write notes on **ANY TWO** the following :

(i) Overlays

(ii) Data Output

(iii) Data modelling

निम्नलिखित में से किन्हीं दो पर टिप्पणी लिखें :

(i) ओवरले

(ii) आंकड़ा आउटपुट

(iii) डेटा मॉडलिंग

S. No of Question Paper : 4354
 Unique Paper Code : 12315214
 Name of the Paper : The World After 1945
 Name of the Course : B.A.(Hons) GE
 Semester : II

Duration: 3 hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper)

(इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।)

Note: Answers may be written *either* in English *or* Hindi but the same medium should be followed throughout the paper.

इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए; लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

Attempt any **four** questions.
 All questions carry equal marks.

किन्हीं चार प्रश्नों के उत्तर दीजिए।
 सभी प्रश्नों के अंक समान हैं।

1. What is decolonization? Discuss it with the example of either Algeria or Indonesia?
 विऔपनिवेशीकरण क्या है? अल्जीरिया या इंडोनेशिया के उदाहरण के साथ इसकी चर्चा करें?
2. How did Super Power rivalries contribute to Cold War? Discuss it in the context of either Vietnam or Korea?
 सुपर पावर प्रतिद्वंद्विता ने शीत युद्ध में कैसे योगदान दिया? वियतनाम या कोरिया के संदर्भ में इसकी चर्चा करें?
3. Explain the crisis of the welfare state system in the UK.
 यूके में कल्याणकारी राज्य व्यवस्था के संकट की व्याख्या करें।
4. To what extent Anti-apartheid movement was able to address racism?
 रंगभेद विरोधी आंदोलन किस हद तक नस्लवाद को संबोधित करने में सक्षम था?
5. Why Environmental disasters like Chornobyl and the Ecological struggle Chipko are relevant to Global Environmental movements?
 चर्नोबिल जैसी पर्यावरणीय आपदाएं और पारिस्थितिक संघर्ष चिपको वैश्विक पर्यावरण आंदोलनों के लिए प्रासंगिक क्यों हैं?
6. Give an account of the Student movements of Paris 1968.
 पेरिस 1968 के छात्र आंदोलनों का विवरण दीजिए।
7. What is the Civil Rights movement?

नागरिक अधिकार आंदोलन क्या है?

8. In the Women's movement how Black Feminist movement is different?
महिला आंदोलन में अश्वेत नारीवादी आंदोलन किस प्रकार भिन्न है?

Sr. No. Of Question Paper:
Unique Paper Code

Roll No.....

: 4355

12445217

Name of Course

B.A./B. Com/B.Sc-Honours, Part-I Part-I- GE-II

Name of the Paper
Semester

Hindustani Music(Vocal/Instrumental)
II

Duration

3 Hours

Maximum Marks

38

1. Write your Roll No. on the top immediately on receipt of this question paper
2. Attempt **five** questions in all, selecting at least **one** question from each section.
Question No. 7 is Compulsory.
3. Answers may be written either in Hindi or in English but the same medium should be followed throughout the paper.

1. इस प्रश्न -पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।
2. **कुल पाँच** प्रश्न कीजिए। **प्रश्न संख्या 7 अनिवार्य है।**
3. इस प्रश्न पत्र का उत्तर अंग्रेजी या हिन्दी में से किसी एक भाषा में दीजिए परन्तु सभी उत्तरों का माध्यम एक ही होना चाहिए।

1. Write the theka and Dugun of any **one** of the following Talas.

7

a. Dadra

b. Teentala

निम्नलिखित में से किसी एक ताल का ठेका तथा उसकी दुगुन लिखिए-

क. दादरा

ख. तीनताल

2. Describe Raga Kafi in detail with its Aaroh, Avroh and Pakad.

7

राग काफ़ी की विस्तारपूर्वक व्याख्या करते हुए उसका आरोह, अवरोह एवं पकड़ लिखिए।

3. Give brief description of Natya Shastra.

7

नाट्यशास्त्र का संक्षिप्त वर्णन कीजिए।

OR / अथवा

3. Give a brief review of "Sangeet Ratnakar".

07

'संगीत रत्नाकर' का संक्षिप्त मूल्यांकन कीजिए।

4. What do you understand by the term 'Raga'? Explain in detail.
'राग' शब्द से आप क्या समझते हैं? विस्तार से समझाइए।

7

5. Give description of any one of the following:-

7

- a. Thaata
- b. Vadi - Samvadi
- c. Laya

निम्नलिखित में से किसी एक की व्याख्या कीजिए-

क. थाट

ख. वादी-समवादी

ग. लय

6. Give a brief description of Matra, Tali, Khali and Vibhag.

7

मात्रा, ताली, खाली और विभाग का संक्षिप्त विवरण दीजिए।

7. Write the notation of Razakhani Gat or Drut Khyal in any One Raga of your syllabus.10

अपने पाठ्यक्रम के किसी एक राग में रज़ाखानी गत अथवा द्रुत खयाल की स्वरलिपि लिखिए।

Or अथवा

Note Only for Visually Challenged

(केवल दृष्टिबाधित छात्रों के लिए)

Write an Essay on 'Sangeet'

'संगीत' विषय पर निबन्ध लिखिए।

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4457

A

Unique Paper Code : 12035916

Name of the Paper : Culture and Theory

Name of the Course : B.A. (Hons) GE

Semester : II / IV

Duration : 3 hours 30 minutes Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

PART A

Write short notes on any three of the following :

(10×3=30)

1. Sasha in Chekhov's "The Betrothed"
2. The title of Mansfield's short story "The Voyage"
3. Orientalism
4. Henri in Sartre's "Intimacy"
5. Munich in Mann's "Gladius Dei"

P.T.O.

PART B

Answer any three questions :

(15×3=45)

6. What does Gramsci mean by "hegemony"? Elaborate on the relationship between "hegemony" and the "separation of powers" with reference to Gramsci's essay.
7. Discuss Said's use of the idea of imaginative geography and its relationship with orientalism in his essay "The Scope of Orientalism".
8. "The category of the Other is as primordial as consciousness itself." Comment on Simone de Beauvoir's use of the idea of the Other in her discussion of the relationship between men and women in her "Introduction" to *The Second Sex*.
9. What is the central debate around the question of art presented in Thomas Mann's short story "Gladius Dei"? How is Heironymus's view on the role of art different from the mainstream view at that time? Elaborate with references to the short story.
10. In his essay "What is an Author?", what according to Foucault, is the role of the author in contemporary discourse? What is the relationship between the figure of the author and "author function"? Discuss with reference to Foucault's essay.

(100)

PART B

Answer any three questions :

(15×3=45)

6. What does Gramsci mean by "hegemony"? Elaborate on the relationship between "hegemony" and the "separation of powers" with reference to Gramsci's essay.
7. Discuss Said's use of the idea of imaginative geography and its relationship with orientalism in his essay "The Scope of Orientalism".
8. "The category of the Other is as primordial as consciousness itself." Comment on Simone de Beauvoir's use of the idea of the Other in her discussion of the relationship between men and women in her "Introduction" to *The Second Sex*.
9. What is the central debate around the question of art presented in Thomas Mann's short story "Gladius Dei"? How is Heironymus's view on the role of art different from the mainstream view at that time? Elaborate with references to the short story.
10. In his essay "What is an Author?", what according to Foucault, is the role of the author in contemporary discourse? What is the relationship between the figure of the author and "author function"? Discuss with reference to Foucault's essay.

(100)

24/5/22 (E)

(This Question Paper contains 2 printed pages)

Roll No.

S. No of Question Paper : 6941
Unique Paper Code : 12315210_OC
Name of the Paper : Issues in the Contemporary World: 1945-2000 (NC)
Name of the Course : B.A.Hons) I (GE)
Semester : II
Duration: 3 hours Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper)
(इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।)
Note: Answers may be written either in English or Hindi but the same medium should be followed throughout the paper.
इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए; लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए।

Attempt any **four** questions.
All questions carry equal marks.
किन्हीं चार प्रश्नों के उत्तर दीजिए।
सभी प्रश्नों के अंक समान हैं।

1. What are the factors identified with development?
विकास के साथ पहचाने जाने वाले कारक क्या हैं?
2. Was there Globalization before the twentieth century?
क्या बीसवीं सदी से पहले वैश्वीकरण था?
3. What is United Nations Organisation and why it was formed?
संयुक्त राष्ट्र संघ क्या है और इसका गठन क्यों किया गया?
4. What is decolonization? Discuss with the example of Algeria?
विऔपनिवेशीकरण क्या है? अल्जीरिया के उदाहरण के साथ चर्चा करें?
5. Discuss the crisis of welfare state system in the United Kingdom?
यूनाइटेड किंगडम में कल्याणकारी राज्य व्यवस्था के संकट पर चर्चा करें।
6. Why Amazon struggle is important for Worldwide Ecological struggles?
विश्वव्यापी पारिस्थितिक संघर्षों के लिए अमेज़न संघर्ष क्यों महत्वपूर्ण है?

7. Discuss the gender based social movements in USA.
संयुक्त राज्य अमेरिका में लिंग आधारित सामाजिक आंदोलनों की चर्चा कीजिए।
8. What is the impact of Globalisation on sports culture?
खेल संस्कृति पर वैश्वीकरण का क्या प्रभाव है?

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1877

A

Unique Paper Code : 32345402

**Name of the Paper : Information Security and
Cyber Laws**

**Name of the Course : Computer Science : Generic
Elective for Honours**

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. All questions are compulsory from Section A.
3. Please attempt any four questions from Section B.
4. Part of a question must be answered together.

SECTION - A

1. (a) Briefly explain the terms plain text, cipher text and key. (3)

P.T.O.

- (b) Differentiate between authorization and authentication. (3)
- (c) Explain substitution cipher using a suitable example. (3)
- (d) Describe encryption and decryption. Explain the various techniques used by cryptanalysts to crack the encrypted message. (3)
- (e) What are the characteristics of a good security policy? (3)
- (f) Explain cyber forensics with suitable examples. (4)
- (g) Explain C.I.A triad. Describe the various techniques to secure a system. (4)
- (h) Differentiate between symmetric and asymmetric key encryption. (4)
- (i) Describe internal and external threat. (4)
- (j) What are the major threats to email? Describe the various techniques to secure an email. (4)

SECTION - B

2. (a) Describe at least two ways of breaking a Caesar cipher on an English-language message. Encrypt the message **"CORONA PANDEMIC IS NOT OVER NOW"** using Caesar cipher with key size 3. (5)
- (b) Encrypt the message **"CORONA PANDEMIC IS NOT OVER NOW"** using the Rail fence technique by using 2 rails. (5)
3. (a) What do you mean by cyber-attacks? Explain Denial of Service and Man-In-the-Middle attack in detail. (5)
- (b) Describe the characteristics of strong password. Briefly explain any two attacks related to password security. (5)
4. (a) What do you mean by Intrusion Detection System? Give types of IDS. (5)
- (b) What is the difference between digital signature and electronic signature? Explain the working of digital signature. (5)
5. (a) What do you understand by Hackers? Give the hat categories of hackers. (5)

- (b) Describe any five digital India initiatives. (5)
6. (a) What is firewall? Explain any three different types of firewalls. (5)
- (b) What do you mean by risk management? Explain the three strategies for dealing with the risk. (5)
7. (a) Describe threat with respect to computing system. Explain different kinds of threats. (5)
- (b) Differentiate between vulnerability and threat. What are the punishments under section 66, 66A, 66B of IT (Amendments) ACT 2008? (5)
8. (a) Describe the sections 65, 66F and 72 of IT (Amendments) ACT 2008. Explain the penal provisions for the same. (6)
- (b) Write short note on the following (**any four**) :
- (i) Logic bomb
 - (ii) Worms
 - (iii) Trojan horse
 - (iv) Trap door
 - (v) Virus (4)

[This question paper contains 2 printed pages.]

Your Roll No.....

A

Sr. No. of Question Paper : 4465(A)

Unique Paper Code : 12055401

Name of the Paper : हिंदी का वैश्विक परिदृश्य

Name of the Course : B.A. (Hons.) - Hindi
CBCS (GE)

Semester : IV

समय : 3 घण्टे

पूर्णांक : 75

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।

2. सभी प्रश्न अनिवार्य हैं।

1. 'प्रवासी साहित्यकार ने हिंदी भाषा को वैश्विक पहचान दी है।' इस कथन की पुष्टि कीजिए। (15)

अथवा

वर्तमान में हिंदी के प्रचार-प्रसार में योगदान देने वाले संस्थानों की भूमिका का उल्लेख कीजिए।

2. मारिशस के किसी एक प्रवासी साहित्यकार की प्रसिद्ध रचना का विस्तार से वर्णन कीजिए। (15)

P.T.O.

अथवा

संयुक्त राष्ट्र का सदस्य होने के बावजूद संयुक्त राष्ट्र में हिंदी भाषा की स्थिति आदर्श नहीं है। विवेचन कीजिए।

3. विश्व के अन्य देशों के साथ सांस्कृतिक संबंधों को विकसित करने में हिंदी सिनेमा ने महत्वपूर्ण योगदान दिया है। इस कथन के आलोक में अपने विचार लिखिए। (15)

अथवा

हिंदी के वैश्विक प्रसार में टेलीविजन और रेडियो कार्यक्रमों की क्या भूमिका रही है? विस्तृत वर्णन कीजिए।

4. भारत में अंतर्राष्ट्रीय हिंदी सम्मेलन की आवश्यकता पर अपने विचार लिखिए। (15)

अथवा

किसी एक विश्व हिंदी सम्मेलन का विस्तृत परिचय दीजिए।

5. निम्नलिखित में से किन्हीं दो पर टिप्पणी लिखिए :- (8 + 7)

- (i) वैश्वीकरण और हिंदी
- (ii) हिंदी की वैश्विक चुनौतियाँ
- (iii) बॉलीवुड गीतों की लोकप्रियता
- (iv) वर्तमान में हिन्दी की वैश्विक चुनौतियाँ

Your Roll No.....

Sr. No. of Question Paper : 5914
Unique Paper Code : 61018411
Name of the Paper : Cyber Crime and Laws
Name of the Course : B.Voc. (Web Designing / Software Development) (GEC-4.2)
Semester : IV
Duration : 3 Hours
Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. The paper has two sections. Section A is compulsory.
3. Attempt any five questions from section B.

Section A

1. (i) Differentiate between cyber-crime and conventional crime. 3
(ii) Explain the categories of cyber-crimes. 5
(iii) What are the advantages and disadvantages of using the Internet? 3
(iv) How do we authenticate an electronic record? Explain the process of its creation and verification. 5
(v) Write a short note on public and private key encryptions. What are their advantages and disadvantages? 4
(vi) Write a note on: Cyber terrorism and Identity theft. 5

Section B

- 2 Explain the powers and procedures of Cyber Appellate Tribunal. Explain the provisions regarding the appeal made to the Cyber Appellate Tribunal. 10
3. Write short notes on Cyber Forensic, Cyber Offence, Computer Network, Copyright as a tool of security. 10/
4. Discuss how the Digital Signature is created and verified. Is Electronic Signature different from Digital Signature? 10
5. "E-governance is smart governance." Discuss the provisions of Information Technology Act, 2000 to facilitate and strengthen e-governance. 10
6. Discuss the provisions of IT Act and Cr.P.C. which could be used to detect and prosecute, in case of computer crime. Examine the scope of IT Act in terms of protection of software copyright. 10
7. What do you understand by the term jurisdiction? Discuss its significance in the cyberspace. Does the Indian law adequately deal with various forms of computer and cyberspace related crimes? Justify your answer. 10
8. Explain briefly punishment for publishing and transmitted obscene material in electronic transactions. Critically review the case Anish Bajaj vs. State. Explain the Role of Government in regulating the Internet Censorship. 10
9. "In the age of Information Communication Technology, right to privacy is being infringed with various means" Explain. What are the provisions which are in consonance with right to privacy? Discuss the provisions exceptions to right to privacy enumerated in Information Technology Act, 2000? 10

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3826 A

Unique Paper Code : 62295602

Name of the Paper : Climate Change Vulnerability
and Mitigation (GE)

Name of the Course : B.A. (Prog.) GE LOCF –
CBCS (Adm)

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt all questions. All questions carry equal marks.
3. Use of stencil is allowed for drawing outline of maps.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

P.T.O.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।
 2. सभी प्रश्नों का उत्तर दें । सभी प्रश्नों के अंक समान हैं ।
 3. मानचित्र की बाहरी रेखा खींचने के लिए स्टेंसिल के प्रयोग की अनुमति है ।
 4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।
-
1. What is climate change and explain the process of global warming in detail.

जलवायु परिवर्तन क्या है और वैश्विक उष्मन की प्रक्रिया को विस्तार से समझाइए ।

OR

Evaluate the role of Inter-governmental Panel on Climate Change in global climatic assessment.

वैश्विक जलवायु मूल्यांकन में जलवायु परिवर्तन पर इंटर-गवर्नमेंटल पैनल की भूमिका का मूल्यांकन कीजिये ।

2. Define vulnerability? Differentiate between physical and social vulnerability with suitable examples.

सुभेद्यता को परिभाषित करें। भौतिक और सामाजिक सुभेद्यता में उदाहरण सहित अंतर बताइये।

OR

Write an essay on the economic vulnerability to climate change with suitable examples.

उदाहरण सहित आर्थिक सुभेद्यता से जलवायु परिवर्तन पर एक निबंध लिखिए।

3. Highlight the impact of climate change on water resources.

जल संसाधन पर जलवायु परिवर्तन के प्रभावों पर प्रकाश डालिये।

OR

Evaluate the influence of climate change on flora and fauna.

वनस्पति और जीवों पर जलवायु परिवर्तन के प्रभावों का मूल्यांकन कीजिये।

4. Evaluate various climate change adaptation strategies using examples from South Asia.

सुभेद्यता को परिभाषित करें। भौतिक और सामाजिक सुभेद्यता में उदाहरण सहित अंतर बताइये।

OR

Write an essay on the economic vulnerability to climate change with suitable examples.

उदाहरण सहित आर्थिक सुभेद्यता से जलवायु परिवर्तन पर एक निबंध लिखिए।

3. Highlight the impact of climate change on water resources.

जल संसाधन पर जलवायु परिवर्तन के प्रभावों पर प्रकाश डालिये।

OR

Evaluate the influence of climate change on flora and fauna.

वनस्पति और जीवों पर जलवायु परिवर्तन के प्रभावों का मूल्यांकन कीजिये।

4. Evaluate various climate change adaptation strategies using examples from South Asia.

दक्षिण एशिया से उदाहरण देते हुए विभिन्न जलवायु परिवर्तन अनुकूलन रणनीतियों का मूल्यांकन कीजिये।

OR

Evaluate the role of panchayats in mitigating climate change at the local level.

स्थानीय स्तर पर जलवायु परिवर्तन के शमन हेतु पंचायतों की भूमिका का मूल्यांकन कीजिये।

5. Write notes on ANY TWO of the following :

(a) Climate change and agriculture

(b) National action plan on climate change

(c) Green House Effects

निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

(क) जलवायु परिवर्तन एवं कृषि

(ख) जलवायु परिवर्तन पर राष्ट्रीय कार्यविधि योजना

(ग) ग्रीन हाउस प्रभाव

Serial No. of Question Paper

Your Roll No.....

Unique Paper Code

: 5924

Name of the Paper

61018629

Name of the Course

Communication Competency

Semester

B.Voc. (Web Designing) (GEC-6.1)

Duration

VI

Maximum Marks

3 Hours

75

Instruction for candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. The paper has eight questions.
3. Answer any five questions.
4. All questions carry equal marks. (15 marks for each question)

1. Explain the Barriers to Communication with examples. Suggest ways to overcome the barriers in a successful manner.

2. The following message was sent by the HR to all employees. Analyse whether the message is effective or ineffective communication. Give reasons and revise the message in the most Assertive manner.

"It has come to my attention that many of you are lying on your time cards. If you come in late, you should not put 8:00 on your card. If you take a long lunch, you should not put 1:00 on your time card. I will not stand for this type of cheating. Beginning next Monday, video cameras will be installed at all entrances to the building, and your entry and exit times will be logged each time you use electronic key cards to enter or leave. Anyone who is late for work or coming back late from lunch more than 3 times will have to answer me. I don't care if you had to take a nap or you girls had to shop. This is a place of business, and we do not want to be taken advantage of by slackers. It is too bad that a few bad apples always have to spoil things for everyone".

3. Imagine you are the Student Editor of your College Magazine. You want to publish an interview with the Principal of your college on the occasion of completing twenty-five years of its establishment. Write 10 responses each.

4. What is the role and responsibility of an interviewer in the planning and conducting of an interview?

5. (i) Differentiate between the three types of listening with examples.

(ii) Analyse following situation, identify the barrier that is affecting the listener and suggest remedies to overcome from it.

"Tanya is attending a lecture which is being delivered by her ex-husband. Tanya and her ex-husband did not end their relationship on good terms and seeing the speaker brought back all bad memories. She assumes that he would not deliver the lecture well. She is unable to focus and listen to the contents of the lecture."

6. Explain the steps for planning and organizing a speech. Elaborate tips for delivering effective speeches.
7. What are the points that a presenter must keep in mind while preparing for a speech or presentation?
8. Explain the characteristics of Non-Verbal Communication with suitable examples. Discuss the importance of gestures and postures while delivering presentations.

2
Your Roll No.....

Serial No. of Question Paper : 5925
Unique Paper Code : 61018630
Name of the Paper : Effective Leadership
Name of the Course : B.Voc. (Web Designing) (GEC-6.2)
Semester : VI
Duration : 3 Hours
Maximum Marks : 75

Instruction for candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any five questions.
3. All questions carry equal marks. (15 marks for each question)

1. What is Leadership? Explain the major differences between transactional leaders and transformational leaders. Out of these two, which are more successful? Justify your answer.
2. "Cross-cultural factors clearly create the potential for increased communication problems" discuss the statement. Also explain the barriers in effective communication and ways to overcome those.
3. "The COVID-19 Pandemic has created a unique set of crisis for businesses but effective leadership can help to manage workforce during turbulent times". Discuss the statement by using relevant examples. How can organization select and develop effective leaders?
4. Describe behaviours that effective leaders demonstrate. Identify the conditions under which highly task oriented and highly people oriented leaders can be successful based on Fiedler's Contingency theory.
5. (a) Explain with suitable example that when the work performed by individuals is preferred by work performed by team?

(b) What are the five stages of group development?

P.T.O.

6. Writes notes on the following:
 - (a) Social Loafing
 - (b) Group Cohesiveness
7. Imagine you have been asked to assemble and lead a team of high potential new hires on the development of an international marketing campaign. How would you distribute the tasks effectively amongst the team members? Also suggest ways to ascertain the individual accountability for improving the performance of the team.
8. Explain the following:
 - (a) Role of Ethics and trust in leadership.
 - (b) How can organization select and develop effective leaders?

2

27
[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 8036

A

Unique Paper Code : 62055634

Name of the Paper : हिन्दी सिनेमा और उसका अध्ययन

Name of the Course : B.A. (Prog.) Hindi CBSE-GE

Semester : VI

समय : 3 घण्टे

पूर्णांक : 75

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए।
2. निम्नलिखित प्रश्नों के उत्तर दीजिए।

1. हिन्दी सिनेमा की सैद्धांतिकी के मुख्य बिंदुओं को स्पष्ट कीजिए।

अथवा

सिनेमा कला कई विधाओं का मिला जुला रूप है प्रकाश डालिए।

(15)

P.T.O.

2. हिन्दी सिनेमा की पृष्ठभूमि पर प्रकाश डालिए।

अथवा

साठ के दशक की हिन्दी फिल्मों को रेखांकित कीजिए। (15)

3. सिनेमा की प्रकाश-व्यवस्था स्पष्ट कीजिए।

अथवा

सामाजिक पृष्ठभूमि पर आधारित फिल्मों पर संक्षिप्त नोट लिखिए। (15)

4. भारत में फोटो कैमरे के आगमन पर प्रकाश डालिए।

अथवा

हिन्दी फिल्म निर्माण में कैमरों की भूमिका को स्पष्ट कीजिए। (15)

5. किन्हीं दो पर टिप्पणी कीजिए : (8,7)

- (i) सिनेमा और समाज का संबंध
- (ii) हिन्दी सिनेमा में आदिवासी समाज
- (iii) मुगले आजम
- (iv) क्लोज अप शॉट

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P Your Roll No.....

Sr. No. of Question Paper : 8037

A

Unique Paper Code : 62315620

Name of the Paper : Delhi through the Ages

Name of the Course : B.A. Programme - GE

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **FIVE** questions in all.
3. **All** questions carry equal marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।

P.T.O.

2. कुल पाँच प्रश्नों के उत्तर दीजिए ।
3. सभी प्रश्नों के अंक समान हैं ।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. The pre-historic to proto historical sites of Delhi are evidence that this terrain was attractive to inhabitants. Explain.

दिल्ली के प्रागैतिहासिक से आद्य ऐतिहासिक स्थल इस बात के प्रमाण हैं कि यह इलाका निवासियों के लिए आकर्षक था । समझाइए ।

2. In the context of Indraprastha, is it possible to establish a relationship between archaeology and myth?

इन्द्रप्रस्थ के सन्दर्भ में क्या पुरातत्व और मिथक के बीच संबंध स्थापित करना संभव है ?

3. Explain the shift and transformations in the urban settlements in the 13th- 14th century with particular reference to Mehrauli or Siri.

13वीं-14वीं शताब्दी में महरौली या सिरी के संदर्भ में शहरी बस्तियों में हुए बदलाव और परिवर्तनों की व्याख्या कीजिए ।

4. In what genre is the Ghalib a poet of 19th century Delhi?

ग़ालिब 19वीं सदी के दिल्ली के किस शैली (प्रकार) के कवि हैं ?

5. How do we describe September 1857 in Delhi as "destruction and demolition". Also, analyse the afterlife of 1857 in Delhi.

हम दिल्ली में सितंबर 1857 को "विनाश और विध्वंस" के रूप में कैसे वर्णित करते हैं। इसके अलावा, दिल्ली में 1857 के बाद के जीवन का विश्लेषण करें।

6. Making Delhi a new imperial capital is a political and economic process. Discuss.

दिल्ली को नई साम्राज्यवादी राजधानी बनाना एक राजनीतिक और आर्थिक प्रक्रिया है। चर्चा करें।

7. Analyse the life and the struggle of women and children in the refugee camp as depicted by Begum Anees Quidwai's 'In freedom's shade'.

शरणार्थी शिविर में महिलाओं और बच्चों के जीवन और संघर्ष का विश्लेषण करें जैसा कि बेगम अनीस क़िदवई ने 'आजादी की छांव में' चित्रित किया है।

8. How people from the other side of Punjab (Punjabi refugees) have gained a commanding influence in Delhi and are directing force in the city's life.

कैसे पंजाब के दूसरी तरफ (पंजाबी शरणार्थी) के लोगों ने दिल्ली में एक प्रभावशाली प्रभाव प्राप्त किया है और शहर के जीवन में शक्ति का निर्देशन कर रहे हैं।

9. Discuss the 'seven cities of Delhi' between 1100 AD and 1947 AD.

1100 ई. से 1947 ई. के बीच 'दिल्ली के सात नगरों' की चर्चा कीजिए।

10. Write short notes on :

निम्न पर संक्षिप्त नोट्स लिखें :

- (i) Hazrat-i Delhi

हज़रत - ए दिल्ली

- (ii) Coronation park

राज्याभिषेक पार्क

[This question paper contains 4 printed pages.]

P

Your Roll No.....

आपका अनुक्रमांक.....

Sr. No. of Question Paper : 8038

A

Unique Paper Code : 62325602

Name of the Paper : Human Rights Gender and Environment

Name of the Course : B.A. (Prog.) GE

पाठ्यक्रम का नाम : बी.ए. (प्रोग्राम) GE

Semester / Annual : VI

सेमेस्टर / वार्षिक : षष्ठ

Duration : 3 Hours

Maximum Marks : 75

समय : 3 घण्टे

पूर्णांक : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **Any Four** questions.
3. **All** questions carry equal marks.
4. Answers may be written either in English or Hindi; but the same medium should be used throughout the paper.

P.T.O.

छात्रों के लिए निर्देश

1. इस प्रश्न-पत्र के मिलते ही ऊपर दिए गए निर्धारित स्थान पर अपना अनुक्रमांक लिखिए ।
2. किन्हीं चार प्रश्नों के उत्तर दीजिये ।
3. सभी प्रश्नों के अंक समान हैं ।
4. इस प्रश्न-पत्र का उत्तर अंग्रेजी या हिंदी किसी एक भाषा में दीजिए, लेकिन सभी उत्तरों का माध्यम एक ही होना चाहिए ।

1. What do you understand by Social Inequality? Analyse Social Inequalities based on Caste and Gender.

सामाजिक असामनता से आप क्या समझते हैं ? जाति और लिंग (जेंडर) के आधार पर सामाजिक असामानताओं का विश्लेषण कीजिए ।

2. Analyse the impact of Globalisation on Workers and Women in India.

भारत में मजदूरों एवं महिलाओं पर वैश्वीकरण के प्रभाव का विश्लेषण कीजिए ।

3. Elaborate on the United Nations Declarations and its relevance in protecting Human Rights.

मानव अधिकार की सुरक्षा के लिए संयुक्त राष्ट्र घोषणा पत्र एवं उसके महत्व को विस्तार से बताइए ।

4. Discuss the evolution of Human Rights Movement. What are the major challenges faced by these Movements in India.

मानव अधिकार आंदोलनों की उन्नति की विवेचना कीजिए। भारत में मानव अधिकार आंदोलनों की मुख्य चुनौतियाँ कौन-सी हैं ?

5. Critically examine the structures of Patriarchy in the context of India.

भारत के संदर्भ में पितृसत्ता की संरचनाओं का आलोचनात्मक परीक्षण कीजिए।

6. Analyse the role of Women's Movement in empowering women.

महिलाओं के सशक्तिकरण के लिए महिला आंदोलनों की भूमिका का विश्लेषण कीजिए।

7. What are the major causes of Environmental Degradation in India? Discuss.

भारत में पर्यावरण के पतन के मुख्य कारण कौन से हैं ? विवेचना कीजिए।

8. Write short notes on **Any Two** of the following :

निम्नलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणी लिखिए :

(a) Role of National Human Rights Commission

राष्ट्रीय मानव अधिकार आयोग की भूमिका

(b) Rights of the Marginalised Groups

अल्पसंख्यक वर्गों के अधिकार

(c) Rio Summit

रियो सम्मेलन

(d) Environmental Movement in India

भारत में पर्यावरण आंदोलन