1 SEM TDC ENGH (CBCS) C 1

2 0 1 9

(December)

ENGLISH

(Core)

Paper : C–1

(Indian Classical Literature)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

All Units are Compulsory

UNIT—I

1. Answer any *one* of the following : 15

   (a) Comment critically on the dramatic significance of the ring episode in *Abhijnana Shakuntalam.*

   (b) Discuss the importance of the recognition scene in *Abhijnana Shakuntalam* with reference to the title of the play.

(Turn Over)

(c) "*Abhijnana Shakuntalam* is a dramatization of the conflicts of the private, public and of desire and duty." Elucidate.

2. Answer briefly any *one* of the following :   5

   (a) Enlist after Sage Kanva the advice imparted to Shakuntala on wifely duties on the occasion of her departure from his Ashram to her husband's abode.

   (b) Attempt a character-sketch of Madhavya.

   (c) Describe the first meeting of Shakuntala and Dushyanta.

UNIT—II

3. Answer any *one* of the following :   15

   (a) " 'The Dicing' Episode provides a critique of the heroic ideal in *Mahabharata*." Critically comment.

   (b) Analyze the ethical dilemma of Karna in the episode, "The Temptation of Karna".

   (c) Discuss on the three-frame narrative structure of *Mahabharata*.

4. Answer briefly any *one* of the following :   5

   (a) Attempt a character sketch of either Gandhari or Dhritarashtra in *Mahabharata*.

   (b) What is the significance of Kunti's visit to Karna? Discuss.

   (c) Comment on Krishna's role in *Mahabharata*.

UNIT—III

5. Answer any *one* of the following :   15

   (a) Comment critically on the significance of the title of Shudraka's play, *Mrichchhakatika*.

   (b) Discuss critically the major themes of *Mrichchhakatika*.

   (c) Comment on the contemporary relevance of Shudraka's classic, *Mrichchhakatika*. Give a reasoned answer.

6. Answer briefly any *one* of the following :   5

   (a) Examine the character of Vasantasena as a New Woman.

   (b) Analyze Shudraka's treatment of Time in *Mrichchhakatika*.

   (c) Write an illustrative note on the humour in *Mrichchhakatika*.

UNIT—IV

7. Answer any *one* of the following :　　　　15

(a) Discuss the influences of Medieval Indian drama on Shankardeva as a Vaishnavite Playwright.

(b) "*Parijata Harana Nat* is so designed to depict 'Lord Krishna' as Supreme God under the ideal of Eka Nama Sharana Dharma of Shankardeva." Critically analyze.

(c) Attempt a critical appreciation of *Parijata Harana.*

8. Answer any *one* of the following :　　　　5

(a) Attempt a character sketch of Narada in *Parijata Harana.*

(b) Write a short note on the role of Satyabhama in *Parijata Harana.*

(c) What is the symbolic significance of the 'Parijata' flower in the play? Discuss.

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1 SEM TDC ENGH (CBCS) C 2

2 0 1 9

(December)

ENGLISH

(Core)

Paper : C–2

(European Classical Literature)

Full Marks : 80
Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

All Units are compulsory

UNIT—I

1. Answer any *one* of the following :   15

   (a) In *Iliad*, Achilles is motivated by pride and honour. Do you agree? Give a reasoned answer.

(b) Comment on the salient features of Greek Epic with specific reference to *Iliad.*

(c) Attempt a character portrayal of Helen of Troy.

2. Answer briefly any *one* of the following :   5

(a) Write a short note on Homer's art of characterization in *Iliad.*

(b) What is the role of Hector in *Iliad*?

(c) Examine the theme of war in *Iliad.*

UNIT—II

3. Answer any *one* of the following :   15

(a) Discuss the conflict between human and divine laws in *Antigone.*

(b) Attempt a detailed character sketch of King Creon in Sophocles' *Antigone.*

(c) Examine *Antigone* as a typical Greek tragedy.

4. Answer briefly any *one* of the following :   5

(a) Comment on the portrayal of sisters' rivalry in *Antigone.*

(Continued)

(b) Write a short note on the chorus in *Antigone.*

(c) Examine the representation of the theme of love in *Antigone.*

UNIT—III

5. Answer any *one* of the following :   15

(a) Examine *The Pot of Gold* as a classical Roman comedy.

(b) Assess the character of Euclio in Plautus' *The Pot of Gold.*

(c) The Pot of Gold satirises the contemporary society during Plautus' time. Discuss.

6. Answer briefly any *one* of the following :   5

(a) What is the role of slaves in *The Pot of Gold* ?

(b) Examine briefly the concept of marriage in *The Pot of Gold.*

(c) How does Plautus' play reflect the role of women in society?

(Turn Over)

UNIT—IV

7. Answer any *one* of the following :   15

    (a) Ovid's story of Philomela, Procne and Tereus is a horrific tale of rape and revenge. Elaborate.

    (b) Examine the theme of revenge in Ovid's *Metamorphoses* ('Bacchus', Book III).

    (c) "Horace's defence of his satire in 1 : 4 rests on a self-description couched in ethical, not poetic, terms." Examine the implication of the statement from your reading of the text.

8. Answer briefly any *one* of the following :   5

    (a) Attempt a character sketch of Thisbe.

    (b) How was Horace's father responsible for his training and education as well as 'the acid of malevolence' in his writings?

    (c) Briefly summarize Horace's defence of satire.

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1 SEM TDC HISH (CBCS) C 1

2 0 1 9

(December)

HISTORY

(Core)

Paper : C–1

(History of India—I)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

1. Answer the following questions in *one* word
   or *one* sentence each :   1×8=8

   (a) Who composed the Allahabad Pillar
        Inscription?

   (b) Who was the author of the work
        Tirukkural?

   (c) Name the earliest farming culture in the
        Western Deccan.

   (d) In which Harappan site was the famous
        dockyard located?

(Turn Over)

(e) Who was the Director-General of the Archaeological Survey of India? Who formally announced the discovery of the Harappan civilization?

(f) Who is the author of the text, *Ashtadhyayi*?

(g) Who is the author of the work, *The Wonder That Was India*?

(h) Name the two important personalities whose conversation was recorded in the text *Milinda Panha*.

2. Write short notes on any *three* of the following :   4×3=12

(a) Hathigumpha Inscription of Kharavela

(b) Prehistoric art of Bhimbetka

(c) Jorwe culture

(d) Town planning of Harappan civilization

(e) Painted grey-ware culture

3. Explain the importance of archaeological sources to reconstruct the history of ancient India.   12

Or

Make a critical estimate of the colonial interpretation of early India.

4. Trace the development of technology and economy of India in the Palaeolithic period.   12

Or

Examine the changes introduced in the Mesolithic Age in India with special reference to stone technology.

5. Give a brief account of the regional distribution of Neolithic culture in India with special reference to Mehrgarh.   12

Or

Explain the importance of 'Ahar' and 'Kayatha' culture in the development of Chalcolithic cultures in India.

6. Explain the factors which were responsible for the decline of the Harappan civilization.   12

Or

Write a brief note on the agrarian base, craft production and trade linkages of the Harappan civilization.

7. Explain the socio-economic background of the rise of Mahajanapadas in the 6th century BC.   12

Or

Trace the development of political ideas and institutions in the Rig-Vedic and Later Vedic Age.

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1 SEM TDC HISH (CBCS) C 2

2 0 1 9

(December)

HISTORY

(Core)

Paper : C–2

(Social Formations and Cultural Patterns of Ancient World)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following in *one* word or in *one* sentence each : 1×8=8

   (a) Who is the author of the work *The Origins of Human Society*?

   (b) What is pyramid text?

   (c) Which region is known as the 'Fertile Crescent'?

(d) Who said, "Egypt is the gift of the Nile"?

(e) What is the meaning of the term 'Helot'?

(f) What does the term 'Shang-di' mean in ancient China?

(g) Who coined the term 'Neolithic'?

(h) Name the author of the work *The History of the Peloponnesian War.*

2. Write short notes on any *three* of the following : 4×3=12

(a) Mesolithic culture

(b) Religion in ancient Egypt

(c) Early Bronze Age in Central Asia

(d) Greek drama

(e) Homer

3. Describe the subsistence economy in the Palaeolithic age with special reference to the tools and technology. 12

Or

Write briefly the factors leading to the domestication of animals. What is the impact of animal husbandry? 6+6=12

4. Describe the chief features of the state and economy in Bronze Age in Mesopotamia. 12

Or

Discuss the nature of polity and economy of China under the Shang dynasty.

5. Explain the debate relating to the advent of Iron technology in Central and West Asia. 12

Or

Define pastoral nomadism. Write a brief note on the nomadic groups of Central Asia. 6+6=12

6. Define slavery as an institution and discuss the chief features of slavery in ancient Greece. 4+8=12

Or

Write a brief note on the trade and urbanization in ancient Greece. 12

7. Discuss the growth of political institutions in ancient Greece with special reference to Athens and Sparta. 12

Or

Write a brief note on the chief features of religion in ancient Greece.

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1 SEM TDC EDNH (CBCS) C 1

2 0 1 9

(December)

EDUCATION

(Core)

Paper : C–1

(Philosophical Foundations of Education)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

1. Answer the following questions : 1×8=8

   (a) Write any one characteristic of non-formal education.

   (b) Who is the chief exponent of social aim of education?

   (c) What is the etymological meaning of the word 'Philosophy'?

   (d) "Philosophy is the mother of all arts." Who said this?

(e) Which school of philosophy laid stress in making ideal man?

(f) Mention any one basic feature of Western Philosophy.

(g) From which language the word Curriculum has been derived?

(h) Who was the creater of Yoga philosophy?

2. Write short notes on the following :   4×4=16

(a) Social aims of secondary education

(b) Four noble truths of Buddhism

(c) Basic tenets of Pragmatism

(d) Types of co-curricular activities

3. Discuss the functions of education related with acquisition of skills leading to self-actualization and successful living.   10

4. Explain the nature and scope of Educational Philosophy. Describe the role of Philosophy in determining aims of education.   4+4+6=14

5. Analyze the impact of Indian schools of Philosophy in present system of education.   10

Or

What is Yoga philosophy? Discuss the Hatha Yoga and Raja Yoga and their impact on Indian education in the present times.   2+4+4=10

6. How has Naturalism influenced the present Indian education system in terms of methods of teaching and the role of teachers?   6+5=11

7. What is meant by curriculum? Discuss the different kinds of curriculum based on various philosophical thoughts.   3+8=11

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1 SEM TDC EDNH (CBCS) C 2

2 0 1 9

(December)

EDUCATION

(Core)

Paper : C–2

(Sociological Foundations of Education)

Full Marks : 80
Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following questions :　　1×8=8

   (a) Who is known as the Father of Sociology?

   (b) "Educational Sociology is the science which describes and explains the institution that is the social relationship in which or through which the individual gains and organizes his experiences." Who said this statement?

(c) Mention any one type of social mobility.

(d) Write the meaning of the Latin word 'Kultura'.

(e) Mention any one factor of cultural change.

(f) What is meant by equity?

(g) Write any one characteristic of totalitarianism.

(h) Who first used the word 'Secularism'?

2. Write short notes on the following :   4×4=16

(a) Principles of consensus theory

(b) Role of education in social mobility

(c) Social inequalities in Indian society

(d) Basic features of democracy

3. What is conflict theory of educational sociology? Write the merits and demerits of conflict theory.   2+4+4=10

4. What is meant by Socialization? Discuss some agencies of socialization.   2+9=11

Or

What is meant by Modernization? Discuss the role of education in modernization. 2+9=11

(Continued)

5. What is meant by social change? Describe the factors of social change. Write the relationship between education and social change.   3+5+6=14

Or

What is meant by economic development of a nation? Discuss the various factors of economic development. Explain the role of education in economic development of a nation.   3+5+6=14

6. What is meant by social disadvantage? Discuss the role of education in the development of socially disadvantaged sections of Indian society.   3+8=11

Or

Describe the characteristics and classification of social groups in Indian context.   6+5=11

7. What is Communism? Describe the nature of education in Communist society.   3+7=10

Or

What is meant by Secularism? Discuss the role of education in a secular society.   3+7=10

★★★

1 SEM TDC PSCH (CBCS) C 1

2 0 1 9

(December)

POLITICAL SCIENCE

(Core)

Paper : C–1

(Understanding Political Theory)

Full Marks : 80
Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer/Select the correct answer of the
   following :   1×8=8

   (a) The term 'Theory' is derived from
   the Greek/Latin/French/Teutonic word
   'Theoria'.

   (b) Write one exponent of Modern Liberalism.

   (c) Mention one obligatory function of a
   Welfare State.

(2)

(d) *The History of Sexuality* was written by Fredric Jameson/Michel Foucault/Jacques Derrida/J. F. Lyotard.

(e) Feminism is opposed to Monarchy/Aristocracy/Patriarchy/Oligarchy.

(f) What is Passive Citizenship?

(g) The another name of Representative Democracy is Direct Democracy/Indirect Democracy/Partial Democracy/Limited Democracy.

(h) "Democracy is a system of government by discussion"—said by Sir John Seely/Barker/MacIver/Abraham Lincoln.

2. Write on the following **within 150 words** each :   4×4=16

(a) Necessity of Political Theory

(b) Relationship between Multiculturalism and Social Justice

(c) Postmodernism

(d) Importance of deliberative democracy in our society

(3)

Answer the following **within 500 words** each :

3. What is Political Theory? Discuss the evolution of Political Theory.   4+8=12

Or

Discuss critically the central idea of the Normative Approach to the study of Political Theory.   12

4. What is Liberalism? Explain the basic elements of Liberalism.   4+7=11

Or

"The history of all hitherto existing society is the history of Class War." Discuss the statement in the light of the Marx's theory of Class Struggle.   11

5. What is Feminism? Discuss the salient features of Radical Feminism.   4+7=11

Or

Analyze the features of third world feminism. Mention its limitations.   7+4=11

6. Define citizenship. Discuss the different types of citizenship.   3+8=11

Or

What is Civil Society? Analyze critically the role of Civil Society in the State.   4+7=11

7. What is Liberal Democracy? Discuss its basic characteristics. 4+7=11

Or

What is Political Participation? Elaborate the main determinants of Political Participation. 3+8=11

★★★

1 SEM TDC PSCH (CBCS) C 2

2 0 1 9

(December)

POLITICAL SCIENCE

(Core)

Paper : C–2

(Constitutional Govt. and Democracy in India)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

_The figures in the margin indicate full marks
for the questions_

1. Answer the following/Fill in the blanks : 1×8=8

   (a) Which amendment of the Indian Constitution made India as a Secular State?

   (b) How many Seats are reserved for women in Panchayats by 73rd Amendment of the Indian Constitution?

   (c) Community Development Programme was introduced in the year ____.

   (d) Who is the Ex-Officio Chairman of the Rajya Sabha?

(e) How many members are nominated by the President of India to the Lok Sabha?

(f) Mention any one of the jurisdictions of the Supreme Court of India.

(g) Article _____ of the Indian Constitution empowered the President of India to declare emergency due to failure of Constitutional machinery in States.

(h) Sarkaria Commission was formed in the year _____.

2. Write short notes on the following :   4×4=16

(a) Government of India Act, 1935

(b) Centre-State conflicts

(c) Public Interest Litigation

(d) Main features of 74th Amendment

3. Explain the proclaimed goals and ideals enshrined in the Constitution of India.
6+6=12

Or

What do you mean by Fundamental Rights? Discuss the Right to Freedom of Indian citizens as laid down by the Indian Constitution.   4+8=12

4. Discuss the appointment and removal of Indian Prime Minister. What are his power and functions?   3+8=11

Or

Discuss the composition, powers and functions of the parliament. Is the parliament sovereign?   8+3=11

5. What do you mean by Judicial Review? Discuss the application of Judicial Review in the Supreme Court of India.   3+8=11

Or

What is Judicial Activism? Discuss the arguments for and against of judicial activism.   3+8=11

6. Discuss the relations between the Central and State Government in respect of Legislative and Administrative procedure.
6+5=11

Or

Is India a Federal State? Justify your answer.   11

(4)

7. Discuss the development of Urban Local institutions since Independence.   11

Or

Explain in detail about the 73rd Amendment of the Indian Constitution.   11

★★★

1 SEM TDC ASMH (CBCS) C 1

2 0 1 9

(December)

ASSAMESE

(Core)

Paper : C–1

(অসমীয়া সাহিত্যৰ বুৰঞ্জী—১)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

১। চমু উত্তৰ লিখাঁ : ১×৮=৮

(ক) ড. সত্যেন্দ্রনাথ শৰ্মাই অসমীয়া সাহিত্যৰ ইতিহাসক কেইটা যুগত ভাগ কৰিছে?

(খ) ফকৰা যোজনা কোন শ্রেণীৰ সাহিত্য ?

(গ) প্রত্ন অসমীয়া সাহিত্যিক নিদর্শন থকা বুলি কোৱা এখন গ্রন্থৰ নাম লিখাঁ।

(Turn Over)

(ঘ) হেম সৰস্বতী, কবিৰত্ন সৰস্বতী, ৰুদ্ৰ কন্দলি কোন যুগৰ কবি ?

(ঙ) মাধৱ কন্দলিক 'পূৰ্বকবি অপ্ৰমাদী' বুলি কোনে আখ্যা দিছিল ?

(চ) 'ঝুমুৰা' সমূহৰ স্ৰষ্টা কোন ?

(ছ) ভট্টদেৱৰ সম্পূৰ্ণ নাম কি ?

(জ) 'হস্তীবিদ্যাৰ্ণৱ' কাৰ ৰচনা ?

২। অসমীয়া সাহিত্যৰ বুৰঞ্জী লিখোঁতা যি কোনো এগৰাকী পণ্ডিতে কৰা অসমীয়া সাহিত্যৰ যুগবিভাজন সম্পৰ্কে বিৱৰি লিখাঁ।   ১৫

৩। (ক) লোকসাহিত্য বুলি ক'লে কোনখিনি সাহিত্যক বুজায় তাৰ আভাস দাঙি ধৰি অসমীয়া লোকসাহিত্যৰ পৰিচয়মূলক এটি টোকা লিখাঁ।   ৩+১২=১৫

অথবা

(খ) অসমীয়া লোকগীতৰ শ্ৰেণীবিভাগ কৰি প্ৰতিটো শ্ৰেণীৰ লোকগীতৰ পৰিচয়সূচক বৰ্ণনা দাঙি ধৰাঁ।   ৩+১২=১৫

৪। (ক) প্ৰাক্-শংকৰী যুগৰ কাব্যৰ ঘাই বিশেষত্বসমূহ আলোচনা কৰাঁ।   ১২

অথবা

(খ) প্ৰাক্-শংকৰী যুগৰ যি কোনো এজন কবিৰ কাব্য-কৃতি সম্পৰ্কে বিৱৰি লিখাঁ।

(Continued)

৫। (ক) 'শংকৰী যুগৰ সাহিত্যৰ বৈশিষ্ট্য' শীৰ্ষক এটি আলোচনা আগবঢ়োৱাঁ।   ১৪

অথবা

(খ) মাধৱদেৱৰ সাহিত্য-কৃতি বিচাৰ কৰি এটি আলোচনা যুগুত কৰাঁ।

৬। তলৰ যি কোনো দুটা বিষয় সম্পৰ্কে চমু আলোচনা আগবঢ়োৱাঁ:   ৮×২=১৬

(ক) ভট্টদেৱ

(খ) চৰিত সাহিত্য

(গ) বুৰঞ্জী সাহিত্য

★★★

1 SEM TDC ASMH (CBCS) C 2

2 0 1 9

(December)

ASSAMESE

(Core)

Paper : C–2

(অসমীয়া সাহিত্যৰ বুৰঞ্জী—২)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

১। চমু উত্তৰ লিখাঁ :   ১×৮=৮

(ক)   প্রথম অসমীয়া কাকত-আলোচনীখনৰ নাম কি ?

(খ)   ‘অসমীয়া ভাষা উন্নতি সাধিনী সভা’ৰ মুখপত্রখনৰ নাম
       লিখাঁ ।

(গ)   ‘বনকুঁৱৰী’ কবিতাটোৰ কবি কোন ?

(ঘ)   ‘আৱাহন’ আলোচনীখন কাৰ পৃষ্ঠপোষকতাত প্রকাশ
       পাইছিল ?

(ঙ) 'জয়ন্তী'ৰ প্রথম সম্পাদক কোন আছিল ?

(চ) 'হে অৰণ্য হে মহানগৰ' কাব্যগ্রন্থৰ কবি কোন ?

(ছ) সৌৰভ কুমাৰ চলিহাই সাহিত্য অকাডেমী বঁটা লাভ কৰা গ্রন্থখনৰ নাম লিখাঁ ।

(জ) 'গৰীয়সী' আলোচনীৰ বৰ্তমানৰ সম্পাদক কোন ?

২। অৰুণোদই যুগৰ আধুনিক অসমীয়া সাহিত্যৰ পটভূমি সম্পৰ্কে এটি আলোচনা প্রস্তুত কৰাঁ ।   ১২

৩। (ক) জোনাকী যুগটোক কিয় ৰোমান্টিক যুগ বুলি অভিহিত কৰা হয়, আলোচনা কৰাঁ । এই যুগৰ সাহিত্য-সমৃদ্ধিত লক্ষ্মীনাথ বেজবৰুৱাৰ অৱদান সম্পৰ্কে এটি আলচ যুগুত কৰাঁ ।   ৫+১০=১৫

অথবা

(খ) উত্তৰ-জোনাকী স্তৰৰ ৰোমান্টিক কবিতাৰ বিশেষত্ব সম্পৰ্কে আলোকপাত কৰাঁ ।   ১৫

৪। (ক) অসমীয়া প্রগতিশীল কবিতাৰ উদ্ভৱ আৰু উত্তৰণত 'জয়ন্তী' আলোচনীৰ ভূমিকা সম্পৰ্কে এটি আলোচনা আগবঢ়োৱাঁ ।   ১৩

অথবা

(খ) আৱাহন যুগৰ অসমীয়া চুটিগল্পৰ গতি-প্রকৃতি বিচাৰ কৰি এটি আলোচনা যুগুত কৰাঁ ।

৫। (ক) যুদ্ধোত্তৰ যুগৰ অসমীয়া কবিতাৰ বিশেষত্ব বিচাৰ কৰাঁ ।   ১২

অথবা

(খ) ৰামধেনু যুগৰ অসমীয়া সাহিত্যৰ পটভূমি উল্লেখ কৰি এই যুগৰ সাহিত্যৰ বৈশিষ্ট্য সম্পৰ্কে এটি বিশ্লেষণ আগবঢ়োৱাঁ ।

৬। সাম্প্রতিক কালৰ অসমীয়া কবিতা অথবা চুটিগল্প সম্পৰ্কে এটি চমু প্রবন্ধ যুগুত কৰাঁ ।   ১০

৭। চমু টোকা লিখাঁ (যি কোনো দুটা) :   ৫×২=১০

(ক) হেমচন্দ্র বৰুৱা

(খ) ৰজনীকান্ত বৰদলৈৰ উপন্যাস

(গ) চৈয়দ আব্দুল মালিকৰ চুটিগল্প

(ঘ) নাট্যকাৰ জ্যোতিপ্রসাদ আগৰৱালা

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1 SEM TDC ECOH (CBCS) C 1

2 0 1 9

(December)

ECONOMICS

(Core)

Paper : C–1

(Introductory Microeconomics)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

1. Choose the most appropriate answer/ Answer the following questions : 1×8=8

   (a) The problem of scarcity arises, because

      (i) institutional supply of resources are limited

      (ii) man has unlimited wants

      (iii) man has to choose between alternative wants

      (iv) resources are limited relative to wants

　　　　　　　　　　　　(_Turn Over_)

(b) A locus of constant utility is called

    (i) expansion path

    (ii) revealed preference axiom

    (iii) indifference curve

    (iv) demand function

(c) An example of 'explicit cost' is

    (i) the wages a proprietor could have made by working as an employee of a large firm

    (ii) the income that could have been earned in alternative uses by the resources owned by the firm

    (iii) the payment of wages by the firm

    (iv) the normal profit earned by a firm

(d) Non-specific factors, which can be put to numerous uses, earn

    (i) a large amount of rent

    (ii) a small amount of rent

         (Continued)

    (iii) no rent

    (iv) None of the above

(e) Write two methods of microeconomic analysis.

(f) Write the meaning of derived demand.

(g) Write one example each of private cost and social cost.

(h) How does the imposition of a unit tax affect the supply curve of a firm?

2. Write short notes on any *four* of the following (within *150* words each) :   4×4=16

(a) Opportunity sets

(b) Applications of price elasticity of demand

(c) Budget constraint

         (Turn Over)

(d) Monopoly and antitrust policy

(e) Productivity of an input

Answer the following questions :

3. (a) (i) Why is it said that the problem of choice has its root in relative scarcity of resources? Discuss the rationale for studying economics.

3+5=8

(ii) Explain the general features of economic models. 4

Or

(b) (i) What are the basic problems of an economic system? Discuss how the basic economic problems are solved in free market and mixed economic systems. 3+5=8

(ii) Explain the growth and efficiency goals of microeconomics. 4

4. (a) (i) Explain the meaning of shifts in the demand curve and shifts in the supply curve. 3

(ii) Discuss how prices allocate resources. 4

(iii) Derive the market demand curve from individual demand curves. 4

Or

(b) Explain with suitable diagrams the impact of a tax on the following :

3½+3½+4=11

(i) Consumer surplus

(ii) Producer surplus

(iii) Efficiency of the markets

5. (a) What is compensating variation in income? Decompose the income and substitution effects from the price effect.

3+8=11

(6)

Or

(b) (i) Discuss the consumer's optimum choice of consumption with the help of indifference curve technique. 8

(ii) Illustrate what will happen if two indifference curves intersect each other. 3

6. (a) (i) Explain with total revenue and total cost curves, how a firm attains profit maximizing output. 7

(ii) Derive the long-run average cost curve from short-run average cost curves. 4

Or

(b) (i) Explain various economies of scale that a firm experiences when it expands its scale of production. 5

(ii) Explain with the help of economics and diseconomics of scale, the shape of long-run average cost curve. 6

(7)

7. (a) Write a critical note on the marginal productivity theory of distribution. 11

Or

(b) (i) What are the determinants of input demand curves? Explain the firm's profit-maximizing condition in input markets. 3+5=8

(ii) Explain how shift in input demand curve occurs. 3

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1 SEM TDC ECOH (CBCS) C2

2 0 1 9

(December)

ECONOMICS

(Core)

Paper : C–2

(Mathematical Methods for Economics–I)

Full Marks : 80
Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks
for the questions

1. Choose the correct option / Answer the
following :   1×8=8

(a) $A \cap A' =$

(i) Ω

(ii) A

(iii) ϕ

(iv) A'

(b) If the AR function is $AR = 100 - 3x$, identify the MR function.

    (i)   MR $= 100x - 3x^2$

    (ii) MR $= 100x + c$

    (iii) MR $= -6x + 10$

    (iv) MR $= -6x + 100$

(c) $\int a^x dx =$

    (i) $\log a^x + c$

    (ii) $ax + c$

    (iii) $\dfrac{a^x}{\log_e a} + c$

    (iv) $a^x + c$

(d) Define limit of a function.

(e) The solution of the differential equation $\dfrac{dy}{dx} = 6$ is

    (i) $y = Ae^{6x}$

    (ii) $y = Ae^{6x} + c$

    (iii) $y = 6x$

    (iv) $y = 6x + c$

(f) $\int_a^b f(x)\, dx =$

    (i) $\int_b^a f(x)\, dx$

    (ii) $-\int_b^a f(x)\, dx$

    (iii) $\int_0^b f(x)\, dx$

    (iv) $\int_a^0 f(x)\, dx$

(g) Distinguish between rational number and irrational number.

(h) A consumer has a utility function $U = u(Q) = \alpha Q^\beta$. His/her marginal utility function is

    (i) $MU = \alpha Q^{\beta-1}$

    (ii) $MU = \beta Q^{\alpha-1}$

    (iii) $MU = \alpha\beta Q^{\alpha-1}$

    (iv) $MU = \alpha\beta Q^{\beta-1}$

2. Answer any *four* of the following :   4×4=16

(a) Distinguish between relations and functions with examples.

(b) Evaluate

$$\lim_{x \to 1} \frac{x^3 - 1}{x^2 - 1}$$

(c) Given the consumption function

$$C(y) = 1000 - \frac{200}{5 + y}$$

Find the marginal propensity to consume at $y = 10$.

(d) Find

$$\int e^x x^2 dx$$

(e) Briefly explain the uses of differential equations in economics.

3. (a) (i) Given the following sets :

$$S_1 = \{a, b, c, d\}$$

$$S_2 = \{1, 2, 3, 4\}$$

Find the Cartesian product P. Also graph the Cartesian product.　3+2=5

(ii) Define set. Illustrate the operations of sets with the help of Venn diagram.　1+4=5

Or

(b) (i) Define the following with examples :　1×4=4
Null set; Disjoint set; Convex set; Intersection of sets

(ii) Find the power sets of the following sets :

$A = \phi, \quad B = \{1\}$　1+1=2

(iii) Define proper subset. Write the proper subsets of $A = \{1, 2, 3\}$.　2+2=4

4. (a) (i) Define continuity of a function. Check the continuity for $f(x) = |x|$ at $x = 0$.　2+3=5

(ii) Draw the graph of $y = x^{-1.3}$.　6

Or

(b) Define function. Explain with diagram different types of functions.　2+9=11

5. (a) (i) Given the production function $Q = -\frac{2}{3}L^3 + 10L^2$, where L is labour employed. Show that diminishing marginal product of labour operates when employment of labour is 6 or more.　5

(ii) Find $\dfrac{d}{dx} \log(x^2 + 2x)$. 3

(iii) If the AR function is $AR = 100 - 3Q$, find the elasticity of demand at $Q = 5$. 4

Or

(b) (i) Given the total cost function

$$TC = 10000 + 100x - 10x^2 + \frac{x^3}{3}$$

Find the marginal cost function and its slope. 3+2=5

(ii) If the demand function is $Q = \sqrt{10 - p^2}$, find the elasticity of demand at $p = 2$. 4

(iii) Find

$$\frac{d}{dx} \frac{x^2}{e^x}$$ 3

6. (a) (i) The marginal cost of a firm is given by $MC = 3 + 7e^x$, where x is output. Find the average cost function, if the fixed cost is ₹ 650. 5

(ii) Evaluate $\int \log x \, dx$. 3

(iii) Briefly illustrate the use of definite integrals in economics. 4

Or

(b) (i) Given the producer's supply function $Q = \sqrt{-4 + 4p}$ and the market price ₹ 10, find the producer's surplus. 5

(ii) Given

$$MC = \frac{\alpha}{\sqrt{\alpha x + \beta}}$$

If the total cost of zero output (x) is zero, find TC as a function of x. 4

(iii) Evaluate

$$\int \frac{(y - 2)^2}{\sqrt{y}} \, dy$$ 3

7. (a) (i) Analyze the following market model for stability : 9

$$Q_d = 14 - 3p$$
$$Q_s = -10 + 2p$$
$$\frac{dp}{dt} = 4(Q_d - Q_s)$$

(ii) Distinguish between homogeneous linear differential equation and non-homogeneous linear differential equation. 2

Or

(b) Given the market model

$$Q_d = a - bp + \delta \frac{dp}{dt}$$

$$Q_s = -c + dp$$

$$\frac{dp}{dt} = \lambda(Q_d - Q_s)$$

$$[a,\ b,\ c,\ d,\ \lambda > 0]$$

Obtain the time path of price p_t. What restriction will you put on δ to ensure dynamic stability? 9+2=11

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