TDC (CBCS) Even Semester Exam., 2019

বাংলা

(দ্বিতীয় ষাণ্মাসিক)

পাঠক্রম নং : BNGHCC–201T

[বাংলা সাহিত্যের ইতিহাস (আধুনিক যুগ)]

পূর্ণমান : ৭০
উত্তীর্ণমান : ২৮

সময় : ৩ ঘণ্টা

পার্শ্বস্থ সংখ্যা পূর্ণমান নির্দেশক

প্রতিটি গুচ্ছ থেকে উত্তর দেওয়া আবশ্যক

গুচ্ছ—১

১। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো চারটি) : ১×৪=৪

(ক) 'ইতিহাসমালা' গ্রন্থটির প্রকাশকাল কত ?

(খ) প্রথম বাংলা সাময়িক পত্রটির নাম লেখো।

(গ) ফোর্ট উইলিয়ম কলেজের দুজন গদ্যশিল্পীর নাম লেখো।

(ঘ) কাকে 'কেরীর মুন্শী' বলা হয় ?

(ঙ) 'কস্যচিৎ উপযুক্ত-ভাইপোস্য' কার ছদ্মনাম ?

(Turn Over)

২। সংক্ষিপ্ত উত্তর দাও (যে কোনো একটি) : ২

(ক) 'গৌড়ীয় ব্যাকরণ' কার লেখা ? এর প্রকাশকাল কত ?

(খ) বাংলা সাহিত্যের প্রথম মৌলিক মুদ্রিত গদ্যগ্রন্থটির নাম লেখো। এর রচয়িতা কে ?

৩। যে কোনো একটি প্রশ্নের উত্তর দাও : ৪

(ক) বাংলা গদ্যের বিকাশের ধারায় ফোর্ট উইলিয়ম কলেজগোষ্ঠীর অবদান আলোচনা করো।

(খ) বাংলা গদ্যের প্রকৃত জনক কে ? এ সম্পর্কে তোমার সুচিন্তিত অভিমত দাও।

গুচ্ছ—২

৪। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো চারটি) : ১×৪=৪

(ক) আধুনিক বাংলা গীতিকবিতার প্রবর্তক কে ?

(খ) 'ব্রজাঙ্গনা' কাব্যের কবি কে ?

(গ) ঈশ্বরগুপ্ত সম্পাদিত পত্রিকাটির নাম কী ?

(ঘ) রবীন্দ্রনাথের প্রথম মুদ্রিত কবিতা কোনটি ?

(ঙ) 'রূপসী বাংলা' কাব্যগ্রন্থের কবির নাম লেখো।

৫। সংক্ষিপ্ত উত্তর দাও (যে কোনো একটি) : ২

(ক) 'মেঘনাদবধ কাব্য'-এর প্রকাশকাল কত ? কাব্যটি কোন্ ছন্দে রচিত ?

(খ) জীবনানন্দ দাশের প্রথম প্রকাশিত কাব্যগ্রন্থ কোনটি ? তাঁকে 'নির্জনতম কবি' বলে কে আখ্যায়িত করেছেন ?

৬। যে কোনো একটি প্রশ্নের উত্তর দাও : ৮

(ক) বিহারীলাল চক্রবর্তীর কবিকৃতি বিশ্লেষণ করো।

(খ) রবীন্দ্রনাথের 'ঐশ্বর্য' পর্বের কাব্যগ্রন্থগুলির পরিচয় দাও।

গুচ্ছ—৩

৭। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো চারটি) : ১×৪=৪

(ক) 'কীর্তিবিলাস'-এর রচয়িতা কে ?

(খ) 'কাল্পনিক সংবদল' কোন্ ইংরেজী নাটকের বঙ্গানুবাদ ?

(গ) বাংলা সাহিত্যের প্রথম ঐতিহাসিক নাটক কোনটি ?

(ঘ) 'সধবার একাদশী' কার লেখা ?

(ঙ) মধুসূদন দত্তের একটি প্রহসনের নাম লেখো।

(4)

৮। সংক্ষিপ্ত উত্তর দাও (যে কোনো একটি) :   ২

(ক) বঙ্কিমচন্দ্র কার, কোন্ নাটকটিকে বাংলার *Uncle Tom's Cabin* বলে অভিহিত করেছেন ?

(খ) গিরিশচন্দ্র ঘোষ প্রতিষ্ঠিত দুটি থিয়েটারের নাম লেখো।

৯। যে কোনো একটি প্রশ্নের উত্তর দাও :   ৮

(ক) পৌরাণিক নাটক রচনায় গিরিশ ঘোষের কৃতিত্ব আলোচনা করো।

(খ) দ্বিজেন্দ্রলাল রায়ের ঐতিহাসিক নাটকগুলির পরিচয় দাও।

গুচ্ছ—৪

১০। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো **চারটি**) :   ১×৪=৮

(ক) বঙ্কিমচন্দ্র স্বয়ং তাঁর কোন্ উপন্যাসটিকে খাঁটি ঐতিহাসিক উপন্যাস বলেছেন ?

(খ) রবীন্দ্রনাথের 'রাজর্ষি' কোন্ রাজপরিবারের কাহিনি অবলম্বনে রচিত ?

(গ) অপু ও দুর্গা বিভূতিভূষণের কোন্ উপন্যাসের চরিত্র ?

(ঘ) শরৎচন্দ্রের কোন্ উপন্যাসে ইংরেজ বিদ্বেষ প্রকাশিত হয়েছে ?

(ঙ) 'বঙ্গ সাহিত্যে উপন্যাসের ধারা' গ্রন্থের লেখক কে ?

(5)

১১। সংক্ষিপ্ত উত্তর দাও (যে কোনো একটি) :   ২

(ক) বঙ্কিমচন্দ্রের প্রথম রচিত উপন্যাস কোনটি ? এটি কোন্ পত্রিকায় ধারাবাহিকভাবে প্রকাশিত হয়েছিল ?

(খ) 'যোগাযোগ' উপন্যাসের রচয়িতা কে ? 'বিচিত্রা' পত্রিকায় উপন্যাসটি কি নামে প্রকাশিত হয়েছিল ?

১২। যে কোনো একটি প্রশ্নের উত্তর দাও :   ৮

(ক) বঙ্কিমচন্দ্রের ইতিহাস ও রোমান্সধর্মী উপন্যাসগুলি সম্পর্কে আলোচনা করো।

(খ) শরৎচন্দ্রের সামাজিক উপন্যাসগুলি সম্পর্কে আলোচনা করো।

গুচ্ছ—৫

১৩। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো **চারটি**) :   ১×৪=৪

(ক) 'পরশুরাম' কার ছদ্মনাম ?

(খ) রবীন্দ্র-ছোটগল্পের দুটি কিশোর চরিত্রের নাম লেখো।

(গ) তারাশঙ্করের প্রথম প্রকাশিত গল্প কোনটি ?

(ঘ) 'হারাণের নাতজামাই'-এর লেখক কে ?

(ঙ) বাংলা ছোটোগল্প-বিষয়ক একটি সমালোচনা-গ্রন্থের নাম লেখো।

১৪। সংক্ষিপ্ত উত্তর দাও (যে কোনো একটি) : ২

   (ক) রবীন্দ্রনাথের কোন্ কাব্যগ্রন্থের, কোন্ কবিতায় ছোটোগল্পের সংজ্ঞা ও চরিত্র নির্দেশিত হয়েছে?

   (খ) 'অতসী মামী' ও 'প্রাগৈতিহাসিক' গল্প-সংকলন দুটি কার?

১৫। যে কোনো একটি প্রশ্নের উত্তর দাও : ৮

   (ক) রবীন্দ্র-ছোটোগল্পে মানুষ ও প্রকৃতির যে নিবিড় সম্পর্কের কথা বিধৃত হয়েছে সে বিষয়ে আলোচনা করো।

   (খ) "পরশুরামের গল্পের মূল উপজীব্য হাস্যরস।" বিশ্লেষণ করো।

★ ★ ★

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TDC (CBCS) Even Semester Exam., 2019

বাংলা

(দ্বিতীয় ষাণ্মাসিক)

পাঠক্রম নং : BNGHCC-202T

(উনিশ শতকের বাংলা গদ্য ও নাটক)

পূর্ণমান : ৭০

উত্তীর্ণমান : ২৮

সময় : ৩ ঘণ্টা

পার্শ্বস্থ সংখ্যা পূর্ণমান নির্দেশক

ক—গুচ্ছ

১। যে-কোন চারটি প্রশ্নের উত্তর দাও : ১×৪=৪

   (ক) 'সীতার বনবাস' কত খ্রিস্টাব্দে গ্রন্থাকারে প্রথম প্রকাশিত হয়?

   (খ) কোন্ নাট্যকার ও কোন্ প্রাচীন কবির কাব্য অবলম্বনে বিদ্যাসাগর 'সীতার বনবাস' রচনা করেন?

   (গ) অরুন্ধতী কোন্ ঋষির পত্নী?

   (ঘ) মুনি ঋষ্যশৃঙ্গর পিতার নাম কী?

   (ঙ) চিত্রকূট কী?

(2)

২। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) 'সীতার বনবাস' ছাড়া বিদ্যাসাগরের যে-কোন দুটি অনুবাদ-গ্রন্থের নাম লেখো।

(খ) বিদ্যাসাগর কবে, কোথায় জন্মগ্রহণ করেন ?

৩। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) অনুবাদগ্রন্থ হিসাবে 'সীতার বনবাস' গ্রন্থটির মৌলিকতার দিকগুলি সংক্ষেপে আলোচনা করো।

(খ) ''বিদ্যাসাগরের সীতা চরিত্রটি করুণরসের আকর।'' মন্তব্যটি পর্যালোচনা করো।

খ—গুচ্ছ

৪। যে-কোন চারটি প্রশ্নের উত্তর দাও :   ১×৪

(ক) বঙ্কিমচন্দ্রের 'বিবিধ প্রবন্ধ' গ্রন্থাকারে কবে প্রথম প্রকাশিত হয় ?

(খ) 'বিবিধ প্রবন্ধ'-এর প্রথমভাগ কোন্ পত্রিকায় প্রথম প্রকাশিত হয় ?

(গ) 'বঙ্গদেশের কৃষক' প্রবন্ধটি কয়টি পরিচ্ছেদে বিভক্ত ?

(ঘ) দেসদিমনা কোন্ নাটকের চরিত্র ?

(ঙ) 'বিবিধ প্রবন্ধ' গ্রন্থে সর্বমোট কয়টি প্রবন্ধ আছে ?

(3)

৫। যে-কোন একটি প্রশ্নের উত্তর দাও :   ২

(ক) 'বিবিধ প্রবন্ধ'-এর 'বাঙালির ইতিহাস' প্রবন্ধটি কোন্ পত্রিকায় প্রথম প্রকাশিত হয় ?

(খ) কত খ্রিস্টাব্দে চিরস্থায়ী বন্দোবস্ত আইন প্রণীত হয় ?

৬। যে-কোন একটি প্রশ্নের উত্তর দাও :   ৮

(ক) 'চিরস্থায়ী বন্দোবস্ত'-এর ফলে বাংলার চাষীদের জীবনে যে দুর্দশা নেমে এসেছিল 'বঙ্গদেশের কৃষক' প্রবন্ধ অনুসরণে আলোচনা করো।

(খ) বঙ্কিমচন্দ্রের প্রবন্ধ অনুসরণে গীতিকাব্যের বৈশিষ্ট্যগুলি লিপিবদ্ধ করো।

গ—গুচ্ছ

৭। যে-কোন চারটি প্রশ্নের উত্তর দাও :   ১×৪=৪

(ক) 'একেই কি বলে সভ্যতা' প্রহসনটি গ্রন্থাকারে কত খ্রিস্টাব্দে প্রথম প্রকাশিত হয় ?

(খ) 'একেই কি বলে সভ্যতা' ছাড়া মাইকেলের অন্য আরেকটি প্রহসনের নাম লেখো।

(গ) কয়টি অঙ্কে 'একেই কি বলে সভ্যতা' প্রহসনটি বিন্যস্ত হয়েছে ?

(ঘ) হরকামিনী কে ?

(ঙ) কালীনাথের প্রকৃত নাম কী ?

৮। যে-কোন একটি প্রশ্নের উত্তর দাও :   ২

  (ক) মাইকেল মধুসূদন কত খ্রিস্টাব্দে, কোথায় জন্মগ্রহণ করেন ?

  (খ) কালীনাথ কে ? তাঁর সম্পূর্ণ নাম কি ছিল ?

৯। যে-কোন একটি প্রশ্নের উত্তর দাও :   ৪

  (ক) প্রহসন কাকে বলে ? 'একেই কি বলে সভ্যতা' প্রহসন হিসাবে সার্থক কি না, বিচার করো।

  (খ) "'একেই কি বলে সভ্যতা' প্রহসনে নবকুমার ব্যক্তি চরিত্র হলেও একটি শ্রেণির প্রতিনিধিত্ব করেছে।" আলোচনা করো।

ঘ—গুচ্ছ

১০। যে-কোন চারটি প্রশ্নের উত্তর দাও :   ১×৪=

  (ক) 'নীলদর্পণ' কত খ্রিস্টাব্দে প্রথম প্রকাশিত হয় ?

  (খ) 'নীলদর্পণ' নাটকের ইংরেজি অনুবাদক কে ?

  (গ) দীনবন্ধু মিত্রের জন্মসাল কত ?

  (ঘ) 'নীলদর্পণ' ইংরেজিতে অনূদিত হবার পর কি নামকরণ করা হয়েছে ?

  (ঙ) বিন্দুমাধবের স্ত্রীর নাম কী ?

(Continu

১১। যে-কোন একটি প্রশ্নের উত্তর দাও :   ২

  (ক) 'নীলের দাদন' বলতে কি বোঝ ?

  (খ) ''ঘুঁটে কুড়ানীর ছেলে সদর নায়েব।'' কে, কার সম্পর্কে একথা বলেছে ?

১২। যে-কোন একটি প্রশ্নের উত্তর দাও :   ৪

  (ক) 'নীলদর্পণ' নাটকের নামকরণের সার্থকতা সংক্ষেপে আলোচনা করো।

  (খ) 'নীলদর্পণ' নাটকের নবীনমাধব চরিত্রটি সংক্ষেপে বিশ্লেষণ করো।

ঙ—গুচ্ছ

১৩। যে-কোন চারটি প্রশ্নের উত্তর দাও :   ১×৪=৪

  (ক) 'বিসর্জন' নাটকটি কবে প্রথম গ্রন্থাকারে প্রকাশিত হয় ?

  (খ) রবীন্দ্রনাথ 'বিসর্জন' নাটকটি কাকে উৎসর্গ করেন ?

  (গ) গোবিন্দমাণিক্য কোথাকার রাজা ?

  (ঘ) 'বিসর্জন' নাটকে মোট কয়টি অঙ্ক আছে ?

  (ঙ) 'বিসর্জন' নাটকটি রবীন্দ্রনাথের কোন্ উপন্যাসের কাহিনী অবলম্বনে রচিত ?

(6)

১৪। যে-কোন একটি প্রশ্নের উত্তর দাও : ২

(ক) 'বিসর্জন' নাটকের মূল আখ্যানের সঙ্গে কোন্ রাজ্যের ও কোন্ মন্দিরের সম্পর্ক আছে?

(খ) 'বিসর্জন' নাটকে গোবিন্দমাণিক্যের অনুজ ভ্রাতার নাম কী? ভিখারিনী বালিকা কে?

১৫। যে-কোন একটি প্রশ্নের উত্তর দাও : ৪

(ক) 'বিসর্জন' নাটকের নামকরণের সার্থকতা সংক্ষেপে বিশ্লেষণ করো।

(খ) জয়সিংহ চরিত্রটি বিশ্লেষণ করো।

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TDC (CBCS) Even Semester Exam., 2019

ENGLISH

(2nd Semester)

Course No. : ENGHCC–201T

(British Poetry and Drama : 17th and 18th Centuries)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

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

UNIT—I

1. Answer any *two* questions : 2×2=4

   (a) Name four poets of the metaphysical school of poetry.

   (b) Explain in brief the meaning of the term 'restoration drama'.

   (c) Mention the names of four periodicals of the 18th century.

2019/TDC/EVEN/BNGHC-20?9/2140
/0?

(*Turn Over*)

(2)

2. Answer any *one* question :   10

  (a) Attempt a note on the characteristic features of metaphysical poetry and the contribution made by different poets of the school.

  (b) Account for the rise of the English novel in the 18th century and mention its chief features.

UNIT—II

3. Answer any *two* questions :   2×2=4

  (a) What does Milton mean by the statement "And justify the ways of God to men"?

  (b) How does Milton relate man's disobedience to the command of God?

  (c) Why did Satan envy God and how did he take revenge against God?

4. Answer any *one* question :   10

  (a) Comment on Milton's handling of the epic convention in *Paradise Lost, Book I* from your reading of the first 125 lines of the poem.

  (b) Critically discuss the importance of the invocation as you find in *Paradise Lost, Book I.*

(3)

UNIT—III

5. Answer any *two* questions :   2×2=4

  (a) What are the major themes of the play, *The Duchess of Malfi*?

  (b) Name the female characters of the play, *The Duchess of Malfi.*

  (c) Mention the names of two plays written by John Webster in collaboration with other writers.

6. Answer any *one* question :   10

  (a) Evaluate *The Duchess of Malfi* as a revenge tragedy.

  (b) Discuss John Webster's art of characterization with reference to *The Duchess of Malfi.*

UNIT—IV

7. Answer any *two* questions :   2×2=4

  (a) Write the name of the play and the dramatist on which *The Rover* is modelled.

  (b) Mention the names of four literary works of Aphra Behn apart from *The Rover.*

  (c) What is the other title of the play, *The Rover* and when was it first performed?

(4)

8. Answer any *one* question : 10

(a) Assess *The Rover* as a typical restoration comedy.

(b) Estimate the significance of the title of Aphra Behn's play, *The Rover*.

UNIT—V

9. Answer any *two* questions : 2×2=4

(a) What is the occasion of the poem, *The Rape of the Lock*?

(b) When and where was *The Rape of the Lock* first published?

(c) *The Rape of the Lock* is modelled on which works?

10. Answer any *one* question : 10

(a) Attempt a critical appreciation of Canto I of *The Rape of the Lock* by Alexander Pope.

(b) Discuss Belinda's elaborate toilet preparations as you find in Canto I of *The Rape of the Lock*.

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TDC (CBCS) Even Semester Exam., 2019

ENGLISH

(2nd Semester)

Course No. : ENGHCC-202T

(American Literature)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. (a) In *The Prologue*, how does Anne Bradstreet criticize the patriarchal society's attitude towards the female poets? 10

Or

(b) With reference to the poems prescribed in your course, critically comment on Walt Whitman's poetic style. 10

2. (a) What are the 'superior things' that the poetic persona of Anne Bradstreet's *The Prologue* feels incapable of writing with his/her 'mean pen'? 4

(2)

Or

(b) Who is the Captain being referred to in Walt Whitman's *O Captain! My Captain!?* 4

UNIT—II

3. (a) Critically comment on the poetic persona's choice of the road 'less traveled by' in Robert Frost's *The Road Not Taken.* 10

Or

(b) How does the poetic persona of Langston Hughes' *The Negro Speaks of Rivers* claim connection to four of the world's ancient rivers and what is the significance of this claim? 10

4. (a) What is the symbolic significance of the 'road' in *The Road Not Taken?* 4

Or

(b) Write a short note on the significance of the title of *The Negro Speaks of Rivers.* 4

UNIT—III

5. (a) Examine Arthur Miller's *Death of a Salesman* as a critique of the American Dream.

(3)

Or

(b) Is Willy Loman's death a suicide or a sacrifice? Discuss. 10

6. Write a short note on any *one* of the following : 4

(a) The symbolic significance of Willy Loman's name

(b) The significance of the title, *Death of a Salesman*

UNIT—IV

7. (a) How does Dupin solve the case and find the missing item in Edgar Allan Poe's *The Purloined Letter?* 10

Or

(b) What is the effect of Will Mayes' death on Miss Minnie Cooper? Who, according to you, is the real victim in William Faulkner's *Dry September?* 10

8. Write a short note on any *one* of the following : 4

(a) The significance of the letter being 'purloined', not stolen

(b) The character of John McLendon in *Dry September*

UNIT—V

9. (a) In Toni Morrison's *The Bluest Eye*, why does Pecola Breedlove yearn for blue eyes? Discuss.

Or

(b) Critically examine the significance of Cholly Breedlove's abuse of his own daughter in *The Bluest Eye*.

10. Write a short note on any *one* of the following :

(a) Maureen Peal's role and function in *The Bluest Eye*

(b) The significance of Pecola's stay with the MacTeers

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TDC (CBCS) Even Semester Exam., 2019

ECONOMICS

(2nd Semester)

Course No. : ECOHCC–201T

(Introductory Macroeconomics)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

UNIT—I

1. Answer any *two* of the following : 2×2=4

(a) What is circular flow of income?

(b) Mention two limitations of macro-economics.

(c) State two points of importance of studies of national income accounts.

2. Answer *either (a) or (b)* from the following : 10

(a) (i) Distinguish between macro-economics and microeconomics. 4

(ii) Discuss in brief the scope of macroeconomics. 6

(b) (i) Make a distinction between GDP and GNP at market price. 3

(ii) What is national income? Explain the value-added approach of estimation of national income. 2+5=7

UNIT—II

3. Answer any *two* of the following : 2×2=4

(a) What are meant by money and near-money?

(b) Distinguish between the crude and sophisticated versions of the quantity theory of money.

(c) Give two assumptions of liquidity preference theory of interest.

4. Answer *either (a) or (b)* from the following : 10

(a) (i) Explain the process of multiple expansion of deposits by a commercial bank.

(ii) What are the limits to the process of credit creation by commercial banks?

(b) What are the main instruments of monetary policy? Assess the effectiveness of monetary policy to tackle inflation. 5+5=10

UNIT—III

5. Answer any *two* of the following : 2×2=4

(a) Distinguish between creeping inflation and galloping inflation.

(b) State two causes of inflation.

(c) What is inflationary gap?

6. Answer *either (a) or (b)* from the following : 10

(a) Examine the effects of inflation. How can inflation be controlled? 5+5=10

(b) Explain clearly the following with the help of diagram : 5+5=10

(i) Demand-pull inflation

(ii) Cost-push inflation

UNIT—IV

7. Answer any *two* of the following : 2×2=4

(a) Give two reasons behind the use of IS-LM tool in macroeconomic analysis.

(b) What is fiscal policy?

(c) State two Keynesian arguments against monetary rule.

8. Answer *either (a) or (b)* from the following : 10

(a) (i) Compare and contrast the classical and the Keynesian models of income determination. 5

(ii) Explain the impact of changes in money supply in the Keynesian systems. 5

(4)

(b) Examine the Keynesian view on effectiveness of—

    (i) monetary policy;

    (ii) fiscal policy.   5+5=10

UNIT—V

9. Answer any *two* of the following :   2×2=4

    (a) What are BoP deficit and surplus?

    (b) Distinguish between balance of trade and balance of payments.

    (c) Mention two causes of disequilibrium in balance of payments.

10. Answer *either (a)* or *(b)* from the following :   10

    (a) Make a clear distinction between the following :   5+5=10

        (i) Balance of current account and Balance of capital account

        (ii) Autonomous transactions and Accommodating transactions

    (b) What are the different types of disequilibrium in the balance of payments? How can the balance of payments' disequilibrium be corrected?   4+6=10

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TDC (CBCS) Even Semester Exam., 2019

ECONOMICS

(2nd Semester)

Course No. : ECOHCC–202T

(Mathematical Methods in Economics—II)

$$\underline{\textit{Full Marks} : 70}$$
$$\textit{Pass Marks} : 28$$

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* of the following questions :   2×2=4

    (a) Define differential equations.

    (b) Write the general solution of differential equation of the form

$$\frac{dy}{dx} + ay = b$$

    (c) Solve the following equation :

$$\frac{dy}{dx} = ae^y$$

(2)

2. Solve the following equations :   3+3+4=10

   (a) $y(1-x) - x\dfrac{dy}{dx} = 0$

   (b) $\dfrac{dy}{dx} + 3x^2 y = 3x^2$

   (c) $2xdy + \dfrac{2}{3}ydx = 0$

OR

3. (a) The demand and supply functions, when p is the price, Q_d is quantity demanded and Q_s is the quantity supplied, are given as

$$Q_d = a - bp \qquad (a,\ b > 0)$$
$$Q_s = -c + dp \qquad (c,\ d > 0)$$
$$\dfrac{dp}{dt} = \alpha(Q_d - Q_s) \qquad (\alpha > 0)$$

Analyze the market model for stability.

   (b) Solve $\dfrac{d^2y}{dx^2} - 7\dfrac{dy}{dx} + 12y = 0$.

UNIT—II

4. Answer any *two* of the following questions :   2×2

   (a) Define idempotent matrix.

   (b) What is linear transformation?

   (c) Find the following determinant's value :

$$\begin{vmatrix} a-b & a+b \\ a+b & a-b \end{vmatrix}$$

(Continued

(3)

5. (a) If

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

find $A^2 - 5A + 7I$.   4

   (b) Evaluate :   3

$$A = \begin{vmatrix} 2 & 3 & 1 \\ 3 & 4 & 2 \\ 2 & 0 & 2 \end{vmatrix} = 0$$

   (c) Prove that if

$$A = \begin{bmatrix} 2 & 8 \\ 4 & 10 \end{bmatrix}$$

then $A^{-1} = \begin{bmatrix} -\dfrac{10}{12} & \dfrac{8}{12} \\ \dfrac{4}{12} & -\dfrac{2}{12} \end{bmatrix}$ 3

OR

6. (a) Using matrix inversion, solve the following linear system of simultaneous equations :   4

$$y - 2x = 6$$
$$y + 4x = 18$$

   (b) Solve the following linear market model by using Cramer's rule :   6

$$Q_d = 50 - 2p$$
$$Q_s = -10 + 3p$$
$$Q_d = Q_s$$

(4)

UNIT—III

7. Answer any *two* of the following questions :

$2 \times 2 = 4$

(a) Define differentiable function.

(b) Find the total differential of $z = \sqrt{x + y}$.

(c) If $u = (ax_1 + bx_2 + c\sqrt{x_1 x_2})$, find $\dfrac{\partial u}{\partial x_1}$.

8. *(a)* Solve the following functions :

(i) Given $y = 4x_1 x_2 + x_1^2$ where $x_1 = 3x_2 + 5$, find out total derivative $\dfrac{dy}{dx_2}$.

(ii) If the utility function is
$$u = \log(ax_1 + bx_2 + c\sqrt{x_1 x_2})$$
obtain the ratio of marginal utilities.

(b) Given $z = x^3 e^{2y}$. Find all the partial derivatives of second order.

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(5)

OR

9. *(a)* What is homogeneous function? 3

(b) Given the function $u = Ax^b y^c$; A, b and c are constants.

(i) Find the conditions under which this is a linear homogeneous function. 3

(i) Apply Euler's theorem if these conditions hold true. 4

UNIT—IV

10. Answer any *two* of the following questions :

$2 \times 2 = 4$

(a) Given the function $z = f(x, y)$, mention the first and second order conditions for maximization.

(b) Mention the geometric definition of concavity and convexity for a two-variable function $z = f(x_1, x_2)$.

(c) Define quasiconvex function.

11. *(a)* Mention the first and second order characterization of convex function with more than one explanatory variable. 2

(6)

(b) Derive the first and second order conditions in order to show that indifference curve is negatively sloped and convex to the origin taking the utility function

$$u = f(x, y)$$

where, u = total utility. x and y are the quantities of two commodities. 8

OR

12. (a) How to construct Lagrange function?

(b) A producer desires to minimize his cost of production $C = 2L + 5K$, where L and K are the inputs, subject to the satisfaction of the production function $Q = LK$. Find the optimum combination of L and K in order to minimize cost of production when output is 40. 8

UNIT—V

13. Answer any *two* of the following questions : $2 \times 2 = 4$

(a) Define input coefficient matrix.

(b) Mention Hawkins-Simon conditions.

(c) Write the economic meaning of $\sum_{i=1}^{n} a_{ij} < 1$ in Leontief static open model.

(7)

14. (a) Given $\begin{bmatrix} 0\cdot1 & 0\cdot3 & 0\cdot1 \\ 0 & 0\cdot2 & 0\cdot2 \\ 0 & 0 & 0\cdot3 \end{bmatrix}$

(i) What will be the output levels if $F_1 = 20$, $F_2 = 0$ and $F_3 = 100$? 6

(ii) Also obtain gross value added in each sector. 4

OR

15. (a) Prove that in a closed Leontief system, the absolute levels of output are indeterminate. 6

(b) Mention the limitations of input-output analysis. 4

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(c) Which Varnas were known as 'Dwija' or twice born?

2. Answer any *one* question :

(a) Evaluate the expansion of inland trade within the subcontinent during 300 BCE to CE 300.

(b) Give an account of 'Varna' and 'Jati' system in North India till CE 300.

UNIT—II

3. Answer any *two* questions : 2×2

(a) Who were the authors of *Indica* and *Arthashastra*?

(b) Name two conquests of Kanishka.

(c) Name two Satavahana rulers.

4. Answer any *one* question :

(a) Form an estimate of Kanishka as a patron of art and culture.

(b) Review the career and achievements of Gautamiputra Satakarni.

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UNIT—III

5. Answer any *two* questions : 2×2=4

(a) Name two dramas written by Harshavardhan.

(b) Name two great rulers of Gupta dynasty.

(c) Name two contemporary rulers of Harshavardhan.

6. Answer any *one* question : 10

(a) "Gupta period is known as the golden period of Indian history." Discuss.

(b) Analyze the salient features of Harsha's administration.

UNIT—IV

7. Answer any *two* questions : 2×2=4

(a) Name any two 'Puranas'.

(b) Name the two sects of Buddhism.

(c) Name two sources from which tantrism drew its inspiration.

J9/2154

(4)

8. Answer any *one* question : 10

(a) Write a detailed note on Mahayana sect of Buddhism.

(b) Give a brief account of Varnashram-dharma.

UNIT—V

9. Answer any *two* questions : 2×2=4

(a) Name two Sanskrit dramas composed by Kalidasa.

(b) Which language was used for composing Sangam literature? Name the earliest work of Sangam literature.

(c) Name two Buddhist rock-cut caves associated with Gupta architecture.

10. Answer any *one* question : 10

(a) Assess the growth and development of Sanskrit literature during 300 BCE to CE 750.

(b) Give an account of Maurya art and architecture.

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TDC (CBCS) Even Semester Exam., 2019

HISTORY

(2nd Semester)

Course No. : HISHCC-202T

(Social Formations and Cultural Patterns of the Medieval World)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* questions : 2×2=4

(a) Who were the Patricians? Name one famous Barracks Emperor.

(b) Who founded the Servan Dynasty and when?

(c) Mention two factors for the decline of Roman Empire.

(Turn Over)

2. Answer any *one* question :

(a) Discuss in brief the transition of Rome from Monarchy to Republic.

(b) Give a brief account of the system of slavery as prevalent in ancient Roman society.

UNIT—II

3. Answer any *two* questions : 2×2=

(a) Name the most important Roman God. Who was known as the Goddess of the Sky in Ancient Rome?

(b) Mention the name of any four Roman Gods.

(c) What is the other name of the Crisis of 3rd Century in Roman Empire? When did this Crisis take place?

4. Answer any *one* question :

(a) Write a brief note on the crisis of the Roman Empire.

(b) Give a brief account of the role played by religion in ancient Rome.

UNIT—III

5. Answer any *two* questions : 2×2=4

(a) What is feudalism?

(b) Name any two towns of medieval Europe.

(c) Which goods were used as items of trade in medieval Europe?

6. Answer any *one* question : 10

(a) Discuss in brief about the crisis of feudalism in Europe (7th century to 14th century).

(b) Give an account of the economic development in Europe during the period of your study.

UNIT—IV

7. Answer any *two* questions : 2×2=4

(a) Name two famous medieval saints.

(b) Name two important religious institutions in medieval Europe.

(c) Which was the only recognized religion in medieval Europe? Name the institution that controlled every aspect of life in medieval Europe.

8. Answer any *one* question :

(a) How did the Church influence life in medieval European society?

(b) Briefly discuss about the religion and culture in medieval Europe.

UNIT—V

9. Answer any *two* questions : 2×2

(a) Mention two basic principles of Islam.

(b) Who was the 1st Caliph? What do you mean by Shariah?

(c) Name two important dynasties of Central Islamic Land.

10. Answer any *one* question :

(a) Discuss in brief about urbanization and trade in Central Islamic Land.

(b) Discuss the rise and growth of Islam in Central Islamic Lands.

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TDC (CBCS) Even Semester Exam., 2019

MATHEMATICS

(2nd Semester)

Course No. : MTMHCC–201T

(Real Analysis)

$$\frac{\textit{Full Marks} : 70}{\textit{Pass Marks} : 28}$$

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* questions : 1×2=2

(a) Find the supremum of the set

$$\left\{1 + \frac{(-1)^n}{n} : n \in N\right\}$$

(b) State completeness property of R.

(c) Let

$$I_n = \left(0, \frac{1}{n}\right)$$

for $n \in \mathbb{N}$. Find the value of

$$\bigcap_{n=1}^{\infty} I_n$$

Either

2. (a) Prove that the following statements are equivalent : 6

   (i) S is countable set.

   (ii) There exists a surjection of $\mathbb{N}$ onto S.

   (iii) There exists an injection of S into $\mathbb{N}$.

   (b) Prove that

   (i) If $a \in \mathbb{R}$, $a \neq 0$, then $a^2 > 0$

   (ii) $1 > 0$

   (iii) If $n \in \mathbb{N}$, then $n > 0$ 6

   Or

3. (a) State and prove Archimedean property. Also show that if $t > 0$, there exists $n_t \in \mathbb{N}$ such that

   $$0 < \frac{1}{n_t} < t$$

1+3+2=6

(b) If x and y are any real numbers with $x < y$, then prove that there exists a rational number $r \in Q$ such that $x < r < y$. 4

(c) If

$$S = \left\{\frac{1}{n} - \frac{1}{m} : n, m \in \mathbb{N}\right\}$$

find inf S and sup S. 2

UNIT—II

4. Answer any *two* questions : 1×2=2

   (a) Give an example of an open set which is not an interval.

   (b) Find the derived set of the set

   $$A = \left\{1, \frac{1}{2}, \frac{1}{3}, \cdots\right\}$$

   (c) Give an example of a set which is neither open nor closed.

   Either

5. (a) State and prove Bolzano-Weierstrass theorem for sets. 1+5=6

(4)

(b) Define limit point of a set. Obtain the derived set of

$$\left\{ \frac{1}{m} + \frac{1}{n} : m \in \mathbb{N},\, n \in \mathbb{N} \right\}$$

1+1=

(c) Prove that the derived set of a set is closed.

Or

6. (a) Prove that intersection of any finite number of open sets is open. The above statement may not be true for arbitrary family of open sets. Justify with counterexample. 4+2=6

(b) Define closure of a set. Prove that the closure of a set S is the intersection of all closed supersets of S. 1+5=6

UNIT—III

7. Answer any *two* questions : 1×2=2

(a) Give an example of a bounded sequence that is not a Cauchy sequence.

(b) Find :

$$\lim_{n \to \infty} \frac{1+2+\cdots+n}{n^2}$$

(c) Define monotone sequence.

TDC (CBCS) Even Semester Exam., 2019

MATHEMATICS

(2nd Semester)

Course No. : MTMHCC-202T

(Differential Equations)

Full Marks : 50
Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer any *ten* of the following : 1×10=10

(a) Find the order and degree of the differential equation

$$\frac{d^3y}{dx^3} + x^2\left(\frac{d^2y}{dx^2}\right)^3 + \frac{dy}{dx} = 2$$

(b) What is the order of the differential equation of a three-parameter family of curves?

(c) Obtain the differential equation whose solution is $y = mx + c$, where m is fixed and c is a parameter.

(2)

(d) Find the integrating factor of

$$x\frac{dy}{dx} + y = \sin x$$

(e) Is the differential equation

$$(x+y)^2 dx - (y^2 - 2xy - x^2) dy = 0$$

exact?

(f) Solve $x\,dy = y\,dx$.

(g) Write the differential equation for diffusion of medicine in bloodstream.

(h) Write the differential equation of simple harmonic motion.

(i) Write the necessary and sufficient condition for integrability of the total differential equation

$$P\,dx + Q\,dy + R\,dz = 0$$

(j) Solve $x\,dy - y\,dx = 2x^2 z\,dz$.

(k) Write Bernoulli's differential equation.

(l) Solve $(D-1)^3 y = 0$.

(m) Find $\dfrac{1}{D^2}\cos 2x$.

(n) Find the complementary function of the differential equation

$$\frac{d^2 y}{dx^2} + \frac{dy}{dx} + y = xe^x$$

(3)

Answer **five** questions, taking **one** from each Unit

UNIT—I

(a) Find the differential equation of the family of circles touching the X-axis.   4

(b) Show that $y_1(x) = e^x \sin x$ and $y_2(x) = e^x \cos x$ are solutions of the differential equation

$$\frac{d^2 y}{dx^2} - 2\frac{dy}{dx} + 2y = 0$$

Use Wronskian to check, if the solutions are linearly independent or not.   2+2=4

3. (a) Obtain the differential equation whose solution is

$$y = a\cos x + b\sin x + \frac{1}{x}(b\cos x - a\sin x)$$ 4

(b) Show that the Wronskian of the functions x^2 and $x^2 \log x$ are non-zero. Can these functions be independent solutions of an ordinary differential equation? If so, determine the differential equation.   1+3=4

UNIT—II

4. *(a)* If the differential equation $Mdx + Ndy = 0$ is homogeneous of degree n and $Mx + Ny \neq 0$, then show that $\dfrac{1}{Mx + Ny}$ will be integrating factor of the equation.

(b) Solve :

$$\frac{dy}{dx} = \sin(x+y) + \cos(x+y)$$

5. *(a)* Solve :   2+2

  (i) $(1+x^2)\dfrac{dy}{dx} + y = e^{\tan^{-1} x}$

  (ii) $(x+y+1)dx + (x-y)dy = 0$

(b) Solve the differential equation by reducing it to linear form

$$\frac{dz}{dx} + \frac{z}{x}\log z = \frac{z}{x^2}(\log z)^2$$

UNIT—III

6. Discuss the population growth model. Find the time in which *(a)* the population doubles and *(b)* the population reduces to half.

    6+1+1

7. Discuss the simple compartmental model.

(Continued)

TDC (CBCS) Even Semester Exam., 2019

POLITICAL SCIENCE

(2nd Semester)

Course No. : PLSHCC-201T
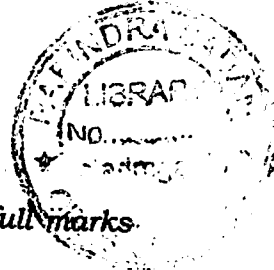
(Political Theory—Concept and Debates)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

UNIT—I

1. Answer any *two* of the following questions :

    2×2=4

(a) Define liberty.

(b) What is 'self' regarding action according to J. S. Mill?

(c) What is positive conception of rights?

(Turn Over)

2. *(a)* Discuss critically J. S. Mill's view on liberty. Explain briefly the differences between negative liberty and positive liberty. 6+4=1

Or

(b) How does positive freedom lead to self-realization and development of an individual? Discuss.

UNIT—II

3. Answer any *two* of the following questions :
2×2

(a) Give one reason why inequality in political sphere is wrong.

(b) Give one justification for differential treatment to different categories of citizens in public policy.

(c) Give one reason why redistribution of property is morally wrong.

4. *(a)* What do you mean by equality of opportunity? Discuss the importance of political equality in democracy. 3+7

Or

(b) What do you mean by Egalitarianism? How can a just and egalitarian society be achieved? 3+7=10

UNIT—III

5. Answer any *two* of the following questions : 2×2=4

(a) What is the second principle of justice according to Rawls?

(b) Write one criticism against the concept of distributive justice.

(c) Is global justice a mere slogan? Give one reason.

6. *(a)* Discuss critically Rawls' theory of justice. 10

Or

(b) What do you mean by global justice? What is its relevance in this era of globalization? 3+7=10

UNIT—IV

7. Answer any *two* of the following questions :

2×2=4

(a) Write one argument in defence of right to private property.

(4)

(b) Mention two moral rights.

(c) Write a brief note on right to environment.

8. (a) Discuss critically John Locke's theory of natural rights.

Or

(b) What are the three types of generations of rights? Explain them elaborately. 3+7=

UNIT—V

9. Answer any *two* of the following questions : 2×2

(a) Define culture.

(b) What is the role of culture in identity formation?

(c) What do you mean by universality of basic rights?

10. (a) What do you mean by human rights? Explain how cultural relativism conflicts universalism. 3+7

Or

(b) What do you mean by multiculturalism? Discuss how ethnic minorities are accommodated and tolerated in a country like India. 3+7

★ ★ ★

J9—630/2209 2019/TDC/EVEN/PLSHCC—201T/

TDC (CBCS) Even Semester Exam., 2019

POLITICAL SCIENCE

(2nd Semester)

Course No. : PLSHCC–202T

(Political Process in India)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* of the following : 2×2=4

(a) Mention two features of the Indian Party System.

(b) Name two regional political parties of India.

(c) Write two features of 'Coalition Politics' in India.

/2210

(Turn Over)

(2)

2. (a) Identify the major drawbacks of Indian Party System. How can these drawbacks be addressed? 7+3

Or

(b) What is a Regional Political Party? Discuss the main factors responsible for the growth of regional political parties in India. 3+7

UNIT—II

3. Answer any *two* of the following : 2×

(a) Explain how regionalism can be an important determinant of voting behaviour in India.

(b) State how income and occupational status of a voter are important factors in voting behaviour in India.

(c) Do you think that Religion is one of the major factors in voting behaviour in India? Explain briefly.

4. (a) What do you mean by Voting Behaviour? Discuss briefly the role of class, gender and religion as major determinants of voting behaviour in India. 3+7

(Continu

(3)

Or

(b) What do you mean by Caste? Discuss the role of Caste as a determinant of Voting Behaviour in India. 3+7=10

UNIT—III

5. Answer any *two* of the following : 2×2=4

(a) What has been Government of India's approach to regional diversity and regional aspirations?

(b) Name two Secessionist groups of the North-East that demanded independence from India.

(c) How do 'Secessionist' demands differ from the demands for autonomy?

6. (a) What is Regionalism? Discuss the main factors responsible for the growth of regionalism in India. 3+7=10

Or

(b) What is Secessionism? Write a brief account of secessionist movements in India since Independence. 3+7=10

(4)

UNIT—IV

7. Answer any *two* of the following :   2×2=4

   (a) Mention two features of Secularism.

   (b) Mention two provisions of the Constitution of India relating to Secularism.

   (c) Suggest two measures to solve the problem of Communalism in India.

8. (a) What is Secularism? Discuss the main features of Indian Secularism. Point out two main criticisms against Indian model of Secularism.   3+5+2=10

   Or

   (b) What is Communalism? Discuss the causes for the growth of Communalism in India.   3+7=10

UNIT—V

9. Answer any *two* of the following :   2×2=4

   (a) When was Mandal Commission appointed? What was its main recommendation?

(5)

   (b) What do you mean by Women Empowerment?

   (c) Mention any two points reflected in National Policy for Empowerment of Women, 2001.

10. (a) Do you find any distinction between 'Caste in Politics' and 'Politicisation of Caste' in the context of politics in India since Independence? What role does 'Caste' play in Indian politics?   2+8=10

    Or

    (b) What is Affirmative Action Policy? Discuss Affirmative Action Policies in India in respect of Scheduled Castes and Tribes.   4+6=10

★ ★ ★

2019/TDC/EVEN/PHIHC–201T/022

TDC (CBCS) Even Semester Exam., 2019

PHILOSOPHY

(2nd Semester)

Course No. : PHIHCC–201T

[**Epistemology and Metaphysics (Western)**]

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

UNIT—I

1. Answer any *two* questions : 2×2=4

    (a) What does the term 'philosophy' mean?

    (b) What is axiology concerned with?

    (c) What is metaphysics?

Answer *either* Q. No. 2 *or* Q. No. 3 :

2. Elaborate the nature and scope of philosophy. 10

(Turn Over)

3. Describe the ways in which philosophical knowledge can be utilized to solve practical problems.

UNIT—II

4. Answer any *two* questions : 2×

   (a) Why is opinion not knowledge according to Plato?

   (b) Can matter or form exist separately from each other according to Aristotle?

   (c) Which Platonic idea is at the top of hierarchy?

Answer *either* Q. No. **5** *or* Q. No. **6** :

5. Explain Plato's theory of ideas.

6. Explain Aristotle's theory of causation.

UNIT—III

7. Answer any *two* questions : 2×

   (a) What is an innate idea according to Descartes?

   (b) Why is the mind called *tabula rasa* by the empiricists?

   (c) Which theory of knowledge does reconcile the rival claims of rationalism and empiricism?

Answer *either* Q. No. **8** *or* Q. No. **9** :

8. Explain Immanuel Kant's theory of knowledge. Can this theory offer a better explanation of knowledge than those of rationalism and empiricism? 7+3=10

9. Who advocated intuitionism? How does intuitionism explain the origin of knowledge? 1+9=10

UNIT—IV

10. Answer any *two* questions : 2×2=4

    (a) What is naive realism?

    (b) How does representationalism explain error or illusion?

    (c) Can Berkeley's idealism be called solipsism?

Answer *either* Q. No. **11** *or* Q. No. **12** :

11. Discuss John Locke's theory of realism. Does this theory open the way for idealism? 7+3=10

(4)

12. How is knowledge related to reality? Explain after Hegel. 10

UNIT—V

13. Answer any *two* questions : 2×2=4

(a) What is perceptual space?

(b) What is substance?

(c) Define cause.

Answer *either* Q. No. **14** *or* Q. No. **15** :

14. Discuss different philosophical views on the nature of space and time. 10

15. Do cause and effect bear a relation of necessary connection? Describe David Hume's position on this point. 10

★ ★ ★

TDC (CBCS) Even Semester Exam., 2019

PHILOSOPHY

(2nd Semester)

Course No. : PHIHCC-202T

(Ethics—I)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

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

UNIT—I

1. Answer any *two* of the following questions : 2×2=4

(a) What is the meaning of the word 'Ethics'?

(b) Is Ethics a positive science? Justify briefly.

(c) What is voluntary action?

2. "Rights and duties are correlated to each other." What is meant by 'right'? How is right related to duty? 4+6=10

OR

3. Discuss the nature of moral judgement. Does the end justify means? 7+3=

UNIT—II

4. Answer any *two* of the following questions : 2×2

(a) Define Altruistic hedonism.

(b) "Virtue is the choice of the mean." Who said this? Give one example.

(c) How many dimensions of Pleasure are there, according to Bentham? Name them.

5. Discuss critically the ethical theory of J. S. Mill. How does it differ from that of Bentham? 7+3=

OR

6. Give the etymological meaning of the word 'Sarvodaya'. Explain how Gandhi's concept of Sarvodaya play a vital role for the upliftment of the society. 1+9=

UNIT—III

7. Answer any *two* of the following questions : 2×2=4

(a) Whose ethical theory is associated with the dictum 'Duty for duty's sake'? What does he mean by this?

(b) What, according to Kant, are the postulates of Morality?

(c) What is the meaning of Swadharma?

8. Elucidate the concept of Niṣkāma Karma of *Bhagavad Gītā*. Does Niṣkāma Karma stand for renunciation of all actions? 7+3=10

OR

9. Explain Kant's doctrine of 'categorical imperative'. Is it satisfactory? Give reasons. 7+3=10

UNIT—IV

10. Answer any *two* of the following questions : 2×2=4

(a) What are the Four Noble Truths of Buddhism?

(b) "In Indian Ethics, Puruṣārthas means the highest good of human life." Is it true?

(c) What are the three-jewels (tri-ratna) of Jainism?

11. Explain Puruṣārtha as a moral ideal in Hindu Ethics.

OR

12. Give a brief outline of Jaina Ethics.

UNIT—V

13. Answer any *two* of the following questions : 2×2

   (a) Is Capital Punishment morally justifiable? Give two reasons.

   (b) What is meant by environmental ethics?

   (c) Does environmental ethics question the basic claims of humanistic ethics?

14. Write a short note on Anthropocentrism. Discuss the points of difference between anthropocentrism and ecocentrism. 5+5=

OR

15. Is punishment ethically justified? Discuss in this connection retributive theory of punishment. 4+6=

★ ★ ★

2. (a) Discuss the dramatic significance of introduction of Brahmacārin in the First... of the drama *Svapnavāsavadattam*

Or

(b) Discuss the role of Yaugandharāya in... drama *Svapnavāsavadattam*

UNIT—II

3. Answer any two of the following
   (a) Name the two friends of Padmāvatī
   (b) Name the lute (वीणा) of king Udayana
   (c) What is the name of the... *Svapnavāsavadattam*

4. (a) Justify the title of the drama *Svapnavāsavadattam*

Or

(b) Give a Pen-Picture of the character of Udayana

UNIT—III

5. Answer any two of the following
   (a) Who cursed Śakuntalā and why?
   (b) Name the two friends of Śakuntalā

(i) ... Who is the speaker and to whom was it said?

(ii) Quote from memory the Nāndī... *Abhijñānaśākuntalam* and point out how it contains the suggestions with regard to the plot of the play

Or

(b) The Fourth Act of the play *Abhijñānaśākuntalam* is said to be the best. Do you agree? Give reasons for your answer

UNIT—IV

6. Answer any two of the following
   (a) Name the protecting amulet of Sarvadamana. What is the speciality of this amulet?
   (b) Who found the lost ring of Śakuntalā and where?
   (c) Marica compared Duṣyanta and Śakuntalā with what two objects?

(b) Discuss the dramatic significance of... of Haṃsapadikā in the beginning of the... Act of the *Abhijñānaśākuntalam*

TDC (CBCS) Even Semester Exam., 2019

বাংলা

(দ্বিতীয় ষাণ্মাসিক)

পাঠক্রম নং : BNG DSC–201T/BNG GEC–201T

[বাংলা সাহিত্যের ইতিহাস(আধুনিক যুগ)]

পূর্ণমান : ৭০

উত্তীর্ণমান : ২৮

সময় : ৩ ঘণ্টা

পার্শ্বস্থ সংখ্যা পূর্ণমান নির্দেশক

প্রতিটি গুচ্ছ থেকে উত্তর দেওয়া আবশ্যিক

গুচ্ছ—১

১। অতি সংক্ষিপ্ত উত্তর দাও (যে-কোন চারটি) : ১×৮=৮

(ক) শ্রীরামপুর মিশন কত খ্রিস্টাব্দে স্থাপিত হয় ?

(খ) রামমোহন রায় রচিত ব্যাকরণ গ্রন্থটির নাম কী ?

(গ) ফোর্ট উইলিয়ম কলেজ কে প্রতিষ্ঠা করেন ?

(Turn Over)

(ঘ) কাদের শিক্ষা দেওয়ার জন্য ফোর্ট উইলিয়ম কলেজ স্থাপিত হয়েছিল ?

(ঙ) বিদ্যাসাগরের 'শকুন্তলা' গ্রন্থটি কোন্ গ্রন্থ অবলম্বনে রচিত ?

২। সংক্ষিপ্ত উত্তর দাও (যে-কোন একটি) :

(ক) রাজা রামমোহন রায়ের উদ্যোগে কোন্ কুপ্রথা বন্ধ হয়েছিল ? তাঁর সম্পাদিত পত্রিকাটির নাম কি ছিল ?

(খ) বিদ্যাসাগরের স্বরচিত জীবনী গ্রন্থটির নাম কী ? হিন্দী 'বৈতাল পঞ্চীসী'-কে তিনি কি নাম দিয়ে অনুবাদ করেছিলেন ?

৩। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) বাংলা গদ্যের বিকাশের ক্ষেত্রে ফোর্ট উইলিয়ম কলেজের লেখকগোষ্ঠীর গুরুত্বপূর্ণ অবদানের কথা আলোচনা করো।

(খ) রবীন্দ্রনাথ বলেছেন, "বিদ্যাসাগর বাংলা গদ্য-ভাষার উচ্ছৃঙ্খল জনতাকে সুবিভক্ত, সুবিন্যস্ত, সুপরিচ্ছন্ন এবং সুসংযত করিয়া তাহাতে সহজ গতি এবং কার্যকুশলতা দান করিয়াছেন।" বিদ্যাসাগরের গদ্য রচনা অবলম্বনে রবীন্দ্রনাথের এই মন্তব্যের সারবত্তা প্রমাণ করো।

গুচ্ছ—২

৪। অতি সংক্ষিপ্ত উত্তর দাও (যে কোনো চারটি) : ১×৪=৪

(ক) কোন্ পত্রিকার জন্য কবি ঈশ্বরগুপ্ত বিখ্যাত ছিলেন ?

(খ) মধুসূদন প্রবর্তিত ছন্দটির নাম কী ?

(গ) রবীন্দ্রনাথ বিহারীলালকে কি অভিধায় আখ্যায়িত করেছেন ?

(ঘ) 'বলাকা' কাব্যগ্রন্থটি কার রচিত ?

(ঙ) 'বনলতা সেন' কবিতার কবি কে ?

২

৫। সংক্ষিপ্ত উত্তর দাও (যে-কোন একটি) :

(ক) মধুসূদন রচিত পত্রকাব্যটির নাম কী ? কোন্ কাব্য রচনা করে কবি মহাকবির সম্মান লাভ করেছেন ?

(খ) কত খ্রিস্টাব্দে, কোন্ কাব্যগ্রন্থের জন্য রবীন্দ্রনাথ নোবেল পুরস্কারে সম্মানিত হয়েছেন ?

৮

৬। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) উনিশ শতকে বাংলা গীতিকবিতার জনক হিসেবে বিহারীলালের কৃতিত্বের পরিমাপ করো।

(খ) ঈশ্বরগুপ্তকে যুগসন্ধির কবি হিসেবে আখ্যায়িত করা কতদূর যুক্তিসঙ্গত, আলোচনা করো।

বিভাগ—৩

৭। অতি সংক্ষিপ্ত উত্তর দাও (যে-কোন চারটি) :   ১×৪

(ক) মধুসূদনের প্রথম নাটক কোনটি ?

(খ) 'কমলে কামিনী' নাটকের নাট্যকার কে ?

(গ) 'সধবার একাদশী' কি জাতীয় রচনা ?

(ঘ) 'জনা' কি জাতীয় নাটক ?

(ঙ) দ্বিজেন্দ্রলালের একটি ঐতিহাসিক নাটকের নাম করো।

৮। সংক্ষিপ্ত উত্তর দাও (যে-কোন একটি) :

(ক) কোন্ নাটকের জন্য দীনবন্ধু মিত্রের নাম প্রসিদ্ধ ? এটি কত খ্রিস্টাব্দে প্রকাশিত হয় ?

(খ) নট ও নাট্যকার হিসেবে কোন্ নাট্যকার আমাদের কাছে পরিচিত ? তাঁর রচিত একটি সামাজিক নাটকের নাম লেখো।

৯। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) বাংলা নাটকের ক্রমবিকাশের ধারায় মধুসূদনের অবদান বিষয়ে আলোচনা করো।

(খ) দ্বিজেন্দ্রলাল রায় রচিত ঐতিহাসিক নাটকগুলির পরিচয় দাও।

(Continued)

বিভাগ—৪

১০। অতি সংক্ষিপ্ত উত্তর দাও (যে-কোন চারটি) :   ১×৪=৮

(ক) বঙ্কিমচন্দ্রের খাঁটি ঐতিহাসিক উপন্যাস কোনটি ?

(খ) 'শেষের কবিতা' কি জাতীয় রচনা ?

(গ) 'শ্রীকান্ত' উপন্যাসের কয়টি পর্ব আছে ?

(ঘ) 'বৈকুণ্ঠের উইল' উপন্যাসটির লেখক কে ?

(ঙ) বিভূতিভূষণের কোন্ উপন্যাস অবলম্বনে চলচ্চিত্র নির্মাণ করে সত্যজিৎ রায় বিখ্যাত হয়েছিলেন ?

১১। সংক্ষিপ্ত উত্তর দাও (যে-কোন একটি) :   ২

(ক) 'ঘরে বাইরে' উপন্যাসটি কার লেখা ? উপন্যাসটিতে একটি আন্দোলনের প্রসঙ্গ আছে, সেটি কী ?

(খ) কোন্ ঔপন্যাসিকের রচনায় প্রকৃতির নিখুঁত ছবির বর্ণনা আছে ? তাঁর কোন উপন্যাসে দুর্ভিক্ষের মর্মান্তিক ছবি ফুটে উঠেছে ?

(Turn Over)

(6)

১২। যে-কোন একটি প্রশ্নের উত্তর দাও :

(ক) বঙ্কিমচন্দ্র তাঁর সামাজিক বাস্তবাশ্রয়ী উপন্যাসে যে সৃজনশীলতার পরিচয় দিয়েছেন তা বিশদ করো।

(খ) বাংলা উপন্যাস-সাহিত্যে শরৎচন্দ্রের অবদান বিষয়ে আলোচনা করো।

গুচ্ছ—৫

১৩। অতি সংক্ষিপ্ত উত্তর দাও (যে-কোন চারটি) :   ১×৪

(ক) রবীন্দ্রনাথের ছোটগল্পগুলির সঙ্কলন গ্রন্থের নাম কী ?

(খ) ছোটগল্প রচনার সূচনাপর্বে রবীন্দ্রনাথ কোথায় অবস্থান করেছিলেন ?

(গ) মানিক বন্দ্যোপাধ্যায়ের একটি গল্প-সঙ্কলনের নাম করো।

(ঘ) 'বেদিনী' গল্পটি কার লেখা ?

(ঙ) পরশুরাম কোন্ লেখকের ছদ্মনাম ?

১৪। সংক্ষিপ্ত উত্তর দাও (যে-কোন একটি) :

(ক) প্রাগৈতিহাসিক গল্পটি কার লেখা ? এটি লেখকের কোন্ গল্প-সঙ্কলনের অন্তর্ভুক্ত ?

(খ) পরশুরামের অধিকাংশ ছোটগল্পের প্রধান রস কী ? তাঁর যে কোনো একটি গল্প-সঙ্কলনের নাম করো।

(7)

১৫। যে-কোন একটি প্রশ্নের উত্তর দাও :   ৮

(ক) বাংলা ছোটগল্পের ধারায় রবীন্দ্রনাথ ঠাকুরের অবদান সম্পর্কে আলোচনা করো।

(খ) তারাশঙ্কর রচিত কয়েকটি ছোটগল্প অবলম্বনে গল্পরচনায় তাঁর বৈশিষ্ট্যের পরিচয় দাও।

★ ★ ★

TDC (CBCS) Even Semester Exam., 2019

GENERAL ENGLISH

(2nd Semester)

Course No. : ENGL–201T

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

UNIT—I

1. Answer any *four* questions : 1×4=4

   (a) When was the poem, *Upon Westminster Bridge* composed?

   (b) How many flowers did Wordsworth see at a glance?

   (c) Who is Tom Dacre?

   (d) When was *The Chimney Sweeper* from *The Songs of Innocence* published?

   (e) How do we know that the poet is all alone in the poem, *The Daffodils*?

(Turn Over)

2. Answer any *one* question :

   (a) What was the dream of the chimney sweeper?

   (b) Name the river and the city referred to in the poem, *Upon Westminster Bridge*.

3. Answer any *one* question :

   (a) Attempt a critical appreciation of William Wordsworth's poem, *The Daffodils*.

   (b) Describe the theme of the poem, *The Chimney Sweeper* from *The Songs of Experience*.

UNIT—II

4. Answer any *four* questions : 1×4

   (a) What does Shelley mean by the term 'blithe spirit'?

   (b) Who/What is a Maenad?

   (c) Why is autumn called the 'season of mists and mellow fruitfulness'?

   (d) What is meant by 'If winter comes can spring be far behind'?

   (e) When was the poem, *Ode to Autumn* published?

5. Answer any *one* question : 2

   (a) Write two instances of the poem, *Ode to Autumn* which refer to the harvesting season.

   (b) Describe briefly any image that you find in the poem, *To a Skylark*.

6. Answer any *one* question : 8

   (a) Give after John Keats a description of the sights and sounds of autumn as you find in *Ode to Autumn*.

   (b) Describe the central theme of the poem, *Ode to the West Wind*.

UNIT—III

7. Answer any *four* questions : 1×4=4

   (a) Who is Vera?

   (b) Who is Mrs. Sappleton?

(4)

(c) What was the breed of the dog that the Sappleton family had?

(d) Where was the girl going to in *The Eyes are not Here*?

(e) At which station did the girl get in the railway compartment?

8. Answer any *one* question :

(a) Why did Frampton Nuttel come to the Sappleton household?

(b) Which time is the best to visit Mussoorie according to the narrator and why?

9. Answer any *one* question :

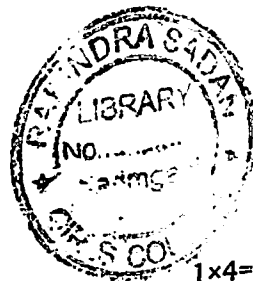(a) Assess the central theme of the short story, *The Open Window*.

(b) What is the significance of the title of the story, *The Eyes are not Here* by Ruskin Bond?

(5)

UNIT—IV

10. Answer any *four* questions :   1×4=4

(a) What was the time when the atom bomb was dropped on Hiroshima?

(b) Who discovered the Pére David's deer?

(c) Who is Marcel Junod?

(d) From which work is *The First Atom Bomb* extracted?

(e) What is a white-tailed gnu?

11. Answer any *one* question :   2

(a) What happened to the hospital in Hiroshima?

(b) Which animals are referred to as extinct or on the verge of extinction in *The Vanishing Animals*?

12. Answer any *one* question :

(a) Discuss the author's concern for wildlife as reflected in *The Vanishing Animals*.

(b) Give a description of Hiroshima after the dropping of the atom bomb.

UNIT—V

13. Answer any *four* questions : 1×4

(a) What is the actual name of George Orwell?

(b) In which place was George Orwell posted as a police officer?

(c) Who first informed Orwell about the ravages caused by the elephant?

(d) How many shots did Orwell fire at the elephant?

(e) What does Orwell say about the worth of the elephant?

14. Answer any *one* question :

(a) How does the author describe the dead Indian coolie?

(b) Where did Orwell first see the elephant and what was it doing?

15. Answer any *one* question : 8

(a) Give a description of the shooting of the elephant till it died.

(b) Attempt a critical appreciation of the prose piece, *Shooting an Elephant.*

★★★

(Continued

TDC (CBCS) Even Semester Exam., 2019

ECONOMICS

(2nd Semester)

Course No. : ECODSC–201T/ECOGEC–201T

(Core Economics—II : Principles of Micro-Economics—II)

$\dfrac{Full\ Marks : 70}{Pass\ Marks : 28}$

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *four* of the following : 1×4=4

   (a) What is perfect competition?

   (b) What is a unique characteristic of monopoly?

(Turn Over)

(c) "Monopoly firm always earns supernormal profit." Write true or false.

(d) Why is the demand curve under perfect competition perfectly elastic?

(e) What is short run?

2. Answer any *one* of the following :

(a) How does perfect competition differ from imperfect competition?

(b) What is price discrimination?

3. Answer any *one* of the following :

(a) What is monopoly market? What are its characteristics? Explain.

(b) How does a monopoly firm determine equilibrium price and output both in the short and long run? Explain with the help of a diagram.

UNIT—II

4. Answer any *four* of the following :   1×4

(a) Who wrote The Theory of Monopolistic Competition?

(b) What is the nature of product in case of monopolistic competition?

(c) What are selling costs?

(d) Can a firm under monopolistic competition supernormal profit in the long run?

(e) Draw the demand curve of a firm under monopolistic competition.

2

5. Answer any *one* of the following :

(a) What is product differentiation?

(b) Mention any two characteristics of oligopoly market.

8

6. Answer any *one* of the following :

(a) Explain the differences between monopolistic competition and perfect competition.

(b) "A firm under monopolistic competition may earn normal profit, supernormal profit or incur losses in the short-run." Explain the statement with the help of suitable diagrams.

(4)

UNIT—III

7. Answer any *four* of the following :   1×4

(a) Does market failure arise due to externalities?

(b) Give one example of public good.

(c) What do you mean by negative externality?

(d) "Market participation affected by asymmetric information is a condition of adverse selection." Write true or false.

(e) What is marginal cost pricing?

8. Answer any *one* of the following :

(a) Define public goods.

(b) Give two examples of positive externalities.

9. Answer any *one* of the following :

(a) Explain the characteristics of public good.

(b) What is market failure? What are the sources of market failure? Explain.

2+6

(Continue

(5)

UNIT—IV

10. Answer any *four* of the following :   1×4=4

(a) What are the factors of production?

(b) What is average physical productivity of a factor?

(c) In perfect competition, VMP>MRP. Write true or false.

(d) What is functional distribution?

(e) Mention one assumption of factor pricing under perfect competition.

2

11. Answer any *one* of the following :

(a) What is input market?

(b) State the two conditions of equilibrium of factor market under perfect competition.

(Turn Over)

(6)

12. Answer any *one* of the following :

(a) What is factor pricing? Explain with the help of a diagram how factor price is determined under perfect competition.

3+5

(b) Explain briefly the determinants of the demand for a variable factor by an individual firm.

UNIT—V

13. Answer any *four* of the following :

1×4

(a) Who is the father of welfare economics?

(b) The 'compensation principle' was suggested by whom?

(c) What is Pareto optimality?

(d) What do you mean by ideal output?

(e) Is welfare economics a normative or positive study?

14. Answer any *one* of the following :

(a) What is welfare economics?

(b) What is value judgement?

(7)

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

(a) Discuss critically the Pigovian welfare condition.

(b) Explain briefly the social welfare function introduced by Prof. Bergson.

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TDC (CBCS) Even Semester Exam., 2019

EDUCATION

(2nd Semester)

Course No. : EDCDSC/EDCGEC–201T

(**Foundation of Educational Psychology**)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

SECTION—A

(Very short-answer type questions)

Answer any *four* questions [from *(a)*, *(b)*, *(c)*, *(d)* and *(e)*]
from each Unit :   4×5=20

UNIT—I

1. *(a)* Write derivative meaning of 'Psychology'.

   (b) Who is known as the father of educational psychology?

   (c) An individual studies and interprets his own mental process. It is known as what?

(2)

(d) What is observation method?

(e) What is observation method of psychology?

UNIT—II

2. *(a)* What is sensation?

(b) Mention one difference between sensation and perception.

(c) What is the first stage of instinctive behaviour of human?

(d) How many types of emotions are classified by McDougall?

(e) What is attention?

UNIT—III

3. *(a)* Who was introducer of conditioning theory?

(b) Mention two laws of learning.

(c) What are the types of motivation?

(d) "To learn something, one must be ready for it both physically and mentally." Which law of learning supports this statement?

(e) What are your motivations?

(3)

UNIT—IV

4. *(a)* What is personality?

(b) Mention one difference between Type and Trait theory of personality.

(c) Who was the exponent of psycho-analytic theory?

(d) What do you mean by adjustment?

(e) Give one example of defence mechanism.

UNIT—V

5. *(a)* Who was advocated two-factor theory of intelligence?

(b) What is the formula of IQ?

(c) What is the trend in IQ scores during the recent decades?

(d) Can creativity be trained?

(e) What is the best way to train people to be creative?

(4)

SECTION—B

(Short-answer type questions)

Answer one question either [(a) or (b)] from each Unit :
2×5

UNIT—I

6. (a) Define the concept of 'Psychology'.
   (b) Define the nature of 'Educational Psychology'.

UNIT—II

7. (a) Explain the concept of Perception.
   (b) What are the conditions of attention?

UNIT—III

8. (a) What is learning?
   (b) What is motivation?

UNIT—IV

9. (a) Explain the concept of personality.
   (b) What is maladjustment?

UNIT—V

10. (a) What is intelligence quotient?
    (b) Define the meaning of creativity.

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(5)

SECTION—C

(Essay-type questions)

Answer either [(a) and (b) or (c) and (d)] from each Unit :
8×5=40

UNIT—I

11. (a) Describe the scope of educational psychology.   4
    (b) What are the psychological characteristics of adolescents?   4

    Or

    (c) Describe the relationship between psychology and education.   4
    (d) Explain introspection method of educational psychology.   4

UNIT—II

12. (a) Mention influencing factors of Sensation and Perception.   3
    (b) Describe briefly educational implications of sensation and perception.   5

J9/2199

(6)

Or

(c) What are the relationships between attention and interest?

(d) Explain how memory can be improved.

UNIT—III

13. (a) Differentiate between learning and maturation.

(b) Describe educational implications of classical conditioning theory by Ivan Pavlov.

Or

(c) Enumerate the factors of motivation.

(d) Why is motivation essential for learning?

UNIT—IV

14. (a) Describe Jung's theory of personality.

(b) Describe Allport's theory of personality.

Or

(c) What is defence mechanism?

(d) Describe the characteristics of well adjusted person.

(7)

UNIT—V

15. (a) Write a comprehensive definition on intelligence. 4

(b) Discuss Spearman's two-factor theory of intelligence. 4

Or 4

(c) Describe the nature of creativity.

(d) What are the relationships between creativity and intelligence? 4

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TDC (CBCS) Even Semester Exam., 2019

FOUNDATION COURSE
(ENVIRONMENTAL STUDIES)

(2nd Semester)

Course No. : FCES AECC-201

Full Marks : 50
Pass Marks : 20

Time : 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

1. Choose the correct answer : $1 \times 10 = 10$

   (a) The term 'ecosystem' was proposed by

   (i) A. G. Tansley

   (ii) F. P. Odum

   (iii) V. V. Dokuchaev

   (iv) G. F. Morozov

(Turn Over)

(b) Pyramid of biomass in forest ecosystem is

   (i) upright

   (ii) wholly inverted

   (iii) partly inverted

   (iv) None of the above

(c) In Assam, shifting cultivation is practised in

   (i) Karbi Anglog and Dima Hasao districts

   (ii) Golaghat and Goalpara districts

   (iii) Jorhat and Dibrugarh districts

   (iv) All of the above

(d) India is expected to face critical levels of water stress by

   (i) 2030

   (ii) 2025

   (iii) 2050

   (iv) None of the above

(e) Coral reefs in Indian waters surround

   (i) the Andaman and Nicobar Islands

   (ii) the Lakshadweep Islands

   (iii) the Gulf areas of Gujarat and Tamil Nadu

   (iv) All of the above

(f) Beej Bachao Andolan (Save the Seeds Movement) began in

   (i) Western Ghat

   (ii) Eastern Ghat

   (iii) Himalayan Foothills

   (iv) Vindhya Range

(g) The unit of measurement of sound is

   (i) curie

   (ii) decibel

   (iii) rad

   (iv) rem

(4)

(h) The Environment (Protection) Act in India was enacted in

(i) 1972

(ii) 1986

(iii) 1981

(iv) 1980

(i) Diarrhea is caused by

(i) bacteria

(ii) virus

(iii) protozoa

(iv) All of the above

(j) The 'Save Silent Valley' movement took place in

(i) Maharashtra

(ii) Karnataka

(iii) Gujarat

(iv) Kerala

(5)

SECTION—B

2. Answer the following questions : 2×10=20

(a) Define ecological succession.

(b) What is nitrification?

(c) What is desertification?

(d) Why does flood occur?

(e) Define the term 'biodiversity'.

(f) Name the biodiversity hot spots of North-East India.

(g) What are the causes of water pollution?

(h) What is sustainable development?

(i) What is Chipko Movement?

(j) What are the impacts of population explosion on environment?

SECTION—C

3. Elucidate the functional properties of ecosystem.

4

Or

Write notes on food chain and food web.

4. Give an account on the causes of deforestation in India.

4

Or

Explain renewable and non-renewable energy resources with examples.

5. Write a note on India as a mega-biodiversity nation.

4

Or

Explain *in-situ* and *ex situ* conservation of biodiversity with examples.

6. What are the causes and effects of global warming?

4

Or

Write a note on solid waste management.

7. Write a note on disaster management. 4

Or

Write in brief about the role of different Indian religions and cultures in environmental conservation.

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TDC (CBCS) Even Semester Exam., 2019

HISTORY

(2nd Semester)

Course No. : HISDSC-201T/HISGEC-201T

(History of India from C 300 to 1206)

$$\frac{\text{Full Marks} : 70}{\text{Pass Marks} : 28}$$

Time : 3 hours

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

UNIT—I

Answer any *four* questions :   1×4=4

(a) Who was the founder of the Gupta dynasty?

(b) Which ruler of the Gupta dynasty has been described as the 'Indian Napoleon'?

(*Turn Over*)

(c) By whom was Samudragupta succeeded?

(d) Who was Harishena?

(e) Name a drama composed by Kalidasa.

2. Name two foreign travellers who visited India during the period of your study.

Or

By which South Indian King was Harshavardhana defeated? To which dynasty did the victor belong?

3. Make an estimate of the Gupta Administration.

OR

4. Write a note on the conquests of Harshavardhana.

UNIT—II

5. Answer any *four* questions : 1×4=

(a) Who was the founder of the Chalukya kingdom?

(b) Name the most important ruler of the Pallava dynasty.

(c) Which Pallava ruler was a great builder?

(d) Who was the founder of the Chola kingdom?

(e) Which Chola King did construct the Rajarajeswara Temple?

Name two groups of the Chalukyas.   2

Or

Mention the names of two South Indian States visited by Hiuen Tsang.   2

Write a note on the contribution of Pallavas to Indian art and architecture.   8

OR

Make an estimate of the administrative system of the Cholas.   8

UNIT—III

9. Answer any *four* questions :   1×4=

   (a) Over which part of India did the Palas rule?

   (b) Who was the greatest ruler of the Pala dynasty?

   (c) Why is Nalanda famous for?

   (d) Who was the builder of the Shiva Temple at Ellora?

   (e) Which Pratihara king did adopt the title, 'Adi Varah'?

10. Name two Pala rulers.

   Or

   Which religion was patronized by the Pala kings? Name the missionary who went to Tibet during the Pala period.   1+1=

11. Make an estimate of the political achievements of Devapala.

   Or

   Draw a picture of the administration of the Pratiharas.

J9/2156   (Continued)

UNIT—IV

Answer any *four* questions :   1×4=4

   (a) Women of which community did practise the 'Jawhar'?

   (b) By whom was *Gitagovinda* composed?

   (c) Name the book composed by Kalhana.

   (d) What was the foundation stone of Rajput society?

   (e) Name the Capital of the Pratiharas.

Mention the names of two religious reformers of India who flourished during the Rajput period.   2

   Or   2

Name two Rajput dynasties.

Write a note on the salient features of Rajput period.   8

OR

15. Make an estimate of King Mihira Bhoja.

UNIT—V

16. Answer any *four* questions :   1×4

    (a) Who was the ruler of Sind during the time of Arab invasion?

    (b) When was Sind conquered by the Arabs?

    (c) Which famous Indian temple was invaded by Sultan Mahmud?

    (d) Which part of India was annexed by Sultan Mahmud?

    (e) Who was the Rajput hero to fight in the Battle of Tarain?

17. Name two Muslim-ruled principalities of India at the time of Muhammad Ghuri's invasion.

Or

When were the Battles of Tarain fought?   2

Write a note on the Arab conquest of Sind.   8

OR

Give an account of the Indian invasion of Sultan Mahmud of Ghazni.   8

★★★

TDC (CBCS) Even Semester Exam., 2019

MASS COMMUNICATION

(2nd Semester)

Course No. : MACDSC/MACGEC–201T

(Introduction to Reporting and Basic
of Indian Constitution)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

Answer Question No. **1** of Part—A and **one**
from each Section of Part—B

PART—A

(*Marks* : 20)

Answer the following questions :   1×20=20

(a) What is called the last line in a
newspaper?

(b) What is meant by the term 'stylebook'?

(*Turn Over*)

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(c) Who is responsible for the selection of news in newspaper?

(d) Who decides on the selection of photographs in newspaper?

(e) What is meant by the term 'zoom in'?

(f) What is cropping?

(g) What is Masthead?

(h) What do you mean by 'by line'?

(i) In which year India became a sovereign, democratic Republic?

(j) In a Parliamentary form of Government, who excises the real power of State?

(k) In Article 394A, which language is the authorised text of the Constitution of India?

(l) In India, from where the concept of single citizenship is adopted?

(m) How many times the National Emergency has declared so far?

(n) The Indian Constitution divided into how many chapters?

(o) What does Preamble mean?

(p) When the President of India can declare emergency?

(q) What is RTI?

(r) In which pillar the press is considered in the democracy?

(s) In Indian Constitution, which type of 'sabha' is mentioned under Panchayati Raj?

(t) Who is the first President of India?

PART—B

(Marks : 50)

SECTION—I

(a) What is news?   2

(b) Discuss the components of hard news and soft news.   8

(a) What is the essential job of a reporter?   2

(b) Discuss different types and areas of a reporter's job.   8

SECTION—II

(a) What is lead?   2

(b) Explain the various types of leads used in news reporting.   8

(a) What is 'beat reporting'?   2

(b) Discuss the various news sources for writing news story.   8

(4)

6. (a) Write two salient features of Indian Constitution.

   (b) Describe the power and functions of the executive.

7. (a) Discuss briefly the powers and functions of the Lok Sabha.

   (b) Discuss the powers and functions of the High Court of India.

SECTION—IV

8. (a) What are the Fundamental Rights of Indian citizen?

   (b) Discuss the Right to Freedom of Speech and Expression guaranteed by the Indian Constitution.

9. (a) Discuss briefly the Preamble of the Constitution.

   (b) Discuss the powers and responsibility of the State in the Indian Constitution.

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(5)

SECTION—V

(a) Discuss in short, the amendment procedure of the Indian Constitution. 2

(b) Elaborate the power and functions of the Rajya Sabha. 8

(a) What do you understand by anti-defection law? 2

(b) Discuss the Indian multi-party system laid down the Constitution. 8

★ ★ ★

TDC (CBCS) Even Semester Exam., 2019

MATHEMATICS

(2nd Semester)

Course No. : MTMDSC–201T/MTMGEC–201T

(Differential Equation)

$$\frac{Full\ Marks : 70}{Pass\ Marks : 28}$$

Time : 3 hours

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

UNIT—I

Answer the following questions : $1×2=2$

(a) Define exact differential equation.

(b) Define Clairaut's equation.

Answer *either (a)* and *(b)* or *(c)* and *(d)* :

(a) Prove that the necessary condition for a differential equation $Mdx + Ndy = 0$ to be exact is that

$$\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$$ 3

(Turn Over)

(b) Solve the equation $y = xp + f(p)$, where $p = \dfrac{dy}{dx}$.

Or

(c) Show that the equation

$$(e^y + 1)\cos x \, dx + e^y \sin x \, dy = 0$$

is exact and hence solve it.

(d) Solve $\quad p^2 + 2px + py + 2xy = 0,\quad$ where $p = \dfrac{dy}{dx}$.

Answer *either (a)* and *(b)* or *(c)* and *(d)* :

3. *(a)* Solve

$$(x^3 + y^3)dx - xy^2 \, dy = 0$$

(b) Explain the method of solving the differential equation of the form

$$y = f(x,\, p),\ p = \dfrac{dy}{dx}$$

Or

(c) Find the integrating factor of the equation $(x^2 + y^2 + x)dx - xy \, dy = 0$.

(d) Solve

$$y + px = p^2 x^4,\ p = \dfrac{dy}{dx}$$

UNIT—II

Answer the following questions : $\qquad 1 \times 2 = 2$

(a) Define Wronskian of n functions.

(b) State the basic theory of linear homogeneous differential equation.

(a) Define linearly dependent and independent set of functions. Prove that e^x, e^{-x} and e^{2x} are the linearly independent solution of

$$\frac{d^3y}{dx^3} - 2\frac{d^2y}{dx^2} - \frac{dy}{dx} + 2y = 0$$

Hence write its general solution. $\qquad 2 + 4 = 6$

Or

(b) Write a differential equation of second order in non-homogeneous form. Also solve the equation

$$\frac{d^2y}{dx^2} + 5\frac{dy}{dx} + 6y = e^x,\ y(0) = 5,\ y'(0) = 7$$

$\qquad 2 + 4 = 6$

(a) Prove that the two solutions of the linear differential equation $y''(x) + Py'(x) + Qy = 0$ are linearly dependent if and only if their Wronskian vanishes identically, where P, Q are either constants or functions of x alone. $\qquad 6$

(4)

Or

(b) Given that

$$e^{-x}, e^{3x} \text{ and } e^{4x}$$

are all solutions of

$$\frac{d^3y}{dx^3} - 6\frac{d^2y}{dx^2} + 5\frac{dy}{dx} + 12y = 0$$

Show that they are linearly independent on the interval $-\infty < x < \infty$ and write the general solution.

UNIT—III

7. Answer the following questions : $1 \times 2 = $

(a) Find complementary function of the given equation :

$$(D^2 + a^2)y = \cos ax$$

(b) Find particular integral of the given differential equations :

$$(D^2 + D + 1)y = e^x$$

8. (a) Solve the following equations : $3 \times 2 = 6$

(i) $\frac{d^2y}{dx^2} + 4y = e^x + \sin 2x$

(5)

(ii) $\frac{d^2y}{dx^2} + \frac{dy}{dx} - 2y = 0$,

when $x = 0$, $y = 3$ and $\frac{dy}{dx} = 0$

Or

(b) Solve

$$\frac{d^2y}{dx^2} + n^2y = \sec nx$$

using the method of variation of parameters. 6

(a) Discuss the method of solving a second order differential equation by variation of parameters. 6

Or

(b) Solve the following equations : $3 \times 2 = 6$

(i) $(D^2 - 2D + 5)y = 10\sin x$

(ii) $(D - 2)^2 y = x^2 e^{2x}$

UNIT—IV

Answer the following questions : $2 \times 1 = 2$

(a) Define total differential equation.

(b) How many arbitrary constants will have if a linear differential equation is of n-th order?

(6)

11. (a) Write down Cauchy-Euler equation. Also solve the differential equation $(x^2D^2 - xD + 2)y = x\log x$. 2+4=6

Or

(b) Write down the condition for the integrability of the equation $Pdx + Qdy + Rdz = 0$. Hence solve the differential equation

$$(yz + 2x)dx + (zx - 2z)dy + (xy - 2y)dz = 0$$

2+4=6

12. (a) Solve the following equation : 3×2=6

(i) $\dfrac{dx}{dt} = -wy$; $\dfrac{dy}{dt} = wx$

(ii) $\dfrac{dx}{x(y^2 - z^2)} = \dfrac{dy}{y(z^2 - x^2)} = \dfrac{dz}{z(x^2 - y^2)}$

Or

(b) Reduce the equation

$$(1 + x)^2 \dfrac{d^2y}{dx^2} + (1 + x)\dfrac{dy}{dx} + y = 4\cos\log(1 + x)$$

into Cauchy-Euler equation form and hence solve the equation. 2+4=6

(7)

UNIT—V

Answer the following questions : 1×2=2

(a) Find order and degree of the partial differential equation

$$\dfrac{\partial^2 z}{\partial x^2} = \sqrt{1 + \dfrac{\partial z}{\partial y}}$$

(b) Whether the following second-order partial differential equation is linear or not :

$$\dfrac{\partial^2 u}{\partial x^2} - 4\dfrac{\partial^2 u}{\partial x\partial y} + 4\dfrac{\partial^2 u}{\partial y^2} = 0$$

(Write yes or no)

(a) Form partial differential equations by eliminating arbitrary constants : 3+3=6

(i) $z = ax + a^2y^2 + b$

(ii) $z = (x - a)^2 + (y - b)^2$

Or

(b) Form partial differential equations by eliminating functions f and F : 3+3=6

(i) $y = f(x - at) + F(x + at)$

(ii) $z = f(x^2 - y^2)$

(8)

15. *(a)* Form a partial differential equation by eliminating function f from

$$z = e^{ax+by} f(ax - by)$$

Hence find its order and degree.   4+2=6

Or

(b) Form partial differential equation by eliminating A and p from

$$z = Ae^{pt} \sin px$$

Also find its degree and order.   4+2=6

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UNIT—I

1. Answer any *four* of the following questions :   1×4=4

(a) Mention two ideals enshrined in the Preamble to the Constitution of India.

(b) Are Fundamental Rights justiciable?

(c) By which Amendment was Right to Property deleted from the list of Fundamental Rights?

(Turn Over)

(d) Who has called the Fundamental Rights 'conscience of the Constitution'?

(e) What is the basic aim of the Directive Principles of State Policy?

2. (a) Write any two differences between the Fundamental Rights and the Directive Principles of State Policy.

Or

(b) Mention two Gandhian principles contained in the Directive Principles of State Policy.

3. (a) Discuss the philosophy of the Indian Constitution.

Or

(b) Discuss the Fundamental Rights of Indian citizens. Point out the limitations of the Fundamental Rights enjoyed by the Indian citizens. 5+3=8

UNIT—II

4. Answer any *four* of the following as directed : 1×4=4

(a) Is the President of India a part of the Union Parliament?

(b) The President of India is directly elected.

(Write yes or no)

(c) Can non-member of the Parliament be appointed as the Prime Minister of India?

(d) How many nominated Members are there in the Rajya Sabha?

(e) What is the age of retirement of a judge of the Supreme Court of India?

5. (a) How is the Prime Minister of India appointed? 2

Or

(b) Is the President of India bound to act according to the advice of the Union Council of Ministers? 2

6. (a) How is the President of India elected? Describe the process of Impeachment of the President of India from office. 6+2=8

Or

(b) Discuss the powers, functions and role of the Prime Minister of India. 8

(4)

UNIT—III

7. Answer any *four* of the following : 1×4=4

(a) Mention any one feature of the caste system prevailing in India.

(b) What is meant by 'class'?

(c) Mention one basic feature of a patriarchal society.

(d) What do you mean by 'secularism'?

(e) Mention one measure for the solution of the problem of communalism in India.

8. (a) Write two differences between Indian secularism and Western secularism. 2

Or

(b) What do you mean by feminism? 2

9. (a) Define caste. Discuss the role of caste in Indian politics. 2+6=8

Or

(b) How do you define communalism? Discuss the causes of the growth of communalism in Indian society. 8

(5)

UNIT—IV

Answer any *four* of the following questions : 1×4=4

(a) Is party system in India extra-constitutional growth?

(b) Mention one regional political party of India.

(c) What do you mean by defection?

(d) Do you consider Chipko Movement an environment movement?

(e) Mention one organization of peasants in India.

(a) Mention two All India or National Political Parties in India. 2

Or

(b) Mention any two social movements in India. 2

(a) Identify the main characteristics of Indian party system. Name the two major categories of political parties in India. 6+2=8

Or

(b) What is social movement? Give a brief outline of the major social movements in India. 2+6=8

UNIT—V

13. Answer any *four* of the following : 1×4=

   (a) When were the new economic reforms introduced in India?

   (b) From where was the idea of planned development borrowed by India?

   (c) Who is regarded as the architect of new economic reforms policy in India?

   (d) Name the institution which has recently replaced the Planning Commission.

   (e) Mention one feature of neo-liberalism.

14. *(a)* Why did the Government of India adopt the new economic reforms policy in late 1980s and early 1990s?

   Or

   (b) Mention any two features of planned economy.

15. *(a)* Write a brief note on the controversy over planned development in the early years of India's independence. Why did the Government of India opt to go for the planned economy? 5+3=

   Or

   (b) What do you mean by liberalization of economy? Discuss the main features of the new economic reforms policy adopted in India since early 1990s.

   2+6=8

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TDC (CBCS) Even Semester Exam., 2019

PHILOSOPHY

(2nd Semester)

Course No. : PHIDSC–201T/PHIGEC–201T

(Ethics)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks
for the questions

UNIT—I

Answer any *four* of the following questions :   1×4=4

(a) What type of science ethics is?

(b) What does 'Summum Bonum' mean?

(c) What type of actions come within the scope of moral judgement?

(d) What is meta-ethics?

(e) Write one point of difference between duty and virtue.

Answer any *one* of the following questions :   2

(a) Distinguish between factual judgement and mortal judgement.

(b) Distinguish between normative ethics and meta-ethics.

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(Turn Over)

(2)

3. (a) Define ethics. Discuss the nature of ethics. 2+6=

Or

(b) What is the object of moral judgement? Discuss elaborately.

UNIT—II

4. Answer any *four* of the following questions : 1×4=

(a) What does the word 'Hedon' mean?

(b) What, according to Aristotle, is virtue?

(c) Name advocate of gross utilitarianism.

(d) Name three dimensions of pleasure.

(e) Give an example of virtue.

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

(a) Name four external sanctions of altruistic action.

(b) Distinguish between moral virtue and intellectual virtue.

6. (a) Discuss critically ethical theory of J. S. Mill.

Or

(b) Discuss M. K. Gandhi's doctrine of Sarvodaya.

UNIT—III

7. Answer any *four* of the following questions : 1×4=

(a) What determines mortal quality of an action, according to Kant?

(b) What is 'Good will'?

(3)

(c) Name, after Kant, postulates of moral action.

(d) What is the literal meaning of 'Niṣkāma Karma'?

(e) Name three Guṇas.

8. Answer any *one* of the following questions : 2

(a) What is Swadharma?

(b) What does 'categorical imperative' mean?

9. (a) Discuss critically Kant's ethical theory of 'Duty for duty's sake'. 8

Or

(b) Discuss ethical theory of *Bhagavad Gītā*. 8

UNIT—IV

Answer any *four* of the following questions : 1×4=4

(a) What is Mokṣa?

(b) Name three jewels of Jainism.

(c) Name two Sādhāraṇa dharma.

(d) What does 'Ahiṁsa' mean?

(e) What is 'Nirvāṇa'?

Answer any *one* of the following questions : 2

(a) Name *Mahābratas* of Jainism.

(b) What are the Four Noble Truths of Buddhism?

12. *(a)* What is Puruṣārtha? How many Puruṣārthas are there? Explain each of them.   2+1+5=8

Or

(b) Discuss ethical theory of Buddhism (Aṣṭāṅgika mārga).   8

UNIT—V

13. Answer any *four* of the following questions :   1×4=4

(a) Name two issues of applied ethics.

(b) What is the necessity of punishment?

(c) What is Capital punishment?

(d) Does deterent theory accept Capital punishment?

(e) What is environmental ethics?

14. Answer any one of the following questions :   2

(a) Define 'Applied Ethics'.

(b) What does ecocentrism mean?

15. *(a)* Discuss central issues of environmental ethics.   8

Or

(b) What are the different theories of punishment? Explain each of them.   8

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TDC (CBCS) Even Semester Exam., 2019

SANSKRIT

(2nd Semester)

Course No. : SANDSC/SANGEC-201T

(Sanskrit Drama)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

UNIT—I

Answer any *four* of the following questions :   1×4=4

(a) Who is eulogised in the first verse of the drama, *Svapnavāsavadattam*?

(b) Who is Padmāvatī?

(c) Who is Darśaka?

(d) Name one maid of Padmāvatī.

(e) 'ततः प्रविशति कन्दुकेन क्रीडन्ती पद्मावती'—What is the meaning of 'कन्दुक'?

2. Answer any *one* of the following questions :

(a) Name the two flowers of the garland that were to be woven by Vāsavadattā at the time of marriage of Padmāvatī.

(b) What did the fortune-tellers say regarding Padmāvatī?

3. Answer the following question :

(a) Discuss the significance of introduction of Brahmacārin in the First Act of the drama, *Svapnavāsavadattam*.

Or

(b) Translate into English :

   (i) नैवेदानीं ताद्दशाश्चक्रवाकाः
नैवाप्यन्ये स्त्रीविशेषैर्वियुक्ताः।
धन्या सा स्त्री यां तथा वेत्ति भर्त्ता
भर्तृस्नेहात् सा हि दग्धाप्यदग्धा॥

   (ii) धीरस्याश्रमसंश्रितस्य वसतस्तुष्टस्य वन्यैः फलै-
र्मानाहिस्य जनस्य वल्कलवतस्त्रासः समुत्पाद्यते।
उत्सिक्तो विनयादपेतपुरुषो भायैश्चलैर्विस्मितः
कोऽयं भो! निभृतं तपोवनमिदं ग्रामीकरोत्याज्ञया॥

UNIT—II

4. Answer any *four* of the following questions : 1×4=4

(a) What is the name of the chief queen of Udayana?

(b) What is the name of the lute of Udayana?

(c) Who is अङ्गारवती?

(d) What is the name of the jester (Vidūṣaka) of the drama, *Svapnavāsavadattam*?

(e) Name the dynesty in which king Udayana was born.

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

(a) Name the two sons of Mahāsena.

(b) Who is Mahāsena? Why is he so called?

5. Answer the following question :

(a) Discuss the significance of the dream-scene of the drama, *Svapnavāsavadattam*. 8

Or

(b) Elucidate the following : 4×2=8

   (i) अनतिक्रमणीयो हि विधिः।

   (ii) स्त्रीस्वभावस्तु कातरः।

UNIT—III

7. Answer any *four* of the following questions : 1×4=

   (a) Who is eulogised in the Nāndī verse of the drama, *Abhijñānaśakuntalam*?

   (b) Who is the foster father of Śakuntalā?

   (c) In which season, the drama *Abhijñāna-śakuntalam* was enacted?

   (d) What is the name of Kaṇva's sister in the drama, *Abhijñānaśakuntalam*?

   (e) King Duṣyanta married Śakuntalā in which form of marriage system?

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

   (a) Who is Pinākī? Why is he so called?

   (b) 'जन्म यस्य पुरोर्वंशे युक्तरूपमिदं तव'—Who said this and to whom?

9. Answer the following question :

   (a) Translate into English :   4×2=

      (i) न खलु न खलु बाणः सन्निपात्योऽयमस्मिन्
          मृदुनि मृगशरीरे तूलराशाविवाग्निः।
          क वत हरिणकानां जीवितं चातिलोलं
          क च निशितनिपाता वज्रसाराः शरास्ते॥

(Continued)

      (ii) रम्याणि वीक्ष्य मधुरांश्च निशम्य शब्दान्
           पर्युत्सुको भवति यत्सुखितोऽपि जन्तुः।
           तच्चेतसा स्मरति नूनमबोधपूर्वं
           भावस्थिराणि जननान्तरसौहृदानि॥

Or

   (b) Elucidate the following :   4×2=8

      (i) किमिव हि मधुराणां मण्डनं नाकृतीनाम्।

      (ii) न प्रभातरलं ज्योतिरुदेति वसुधातलात्।

UNIT—IV

0. Answer any *four* of the following questions : 1×4=4

   (a) Name the Vidyā in which Sānumatī was mastered.

   (b) What is the name of the merchant who died in the shipwreck?

   (c) Who is Mātali?

   (d) In whose hermitage, the reunion of Duṣyanta and Śakuntalā took place?

   (e) What is the name of the son of Duṣyanta and Śakuntalā?

(Turn Over)

(6)

11. Answer any *one* of the following questions :

(a) Name the two hermits who accompanied Śakuntalā to her husband's house.

(b) To which objects Duṣyanta and Śakuntalā were compared by Mārīca?

12. Answer the following question :

(a) Sketch the character of Duṣyanta as depicted in *Abhijñānaśakuntalam*.

Or

(b) What is the significance of the curse of Durvāsā in the development of the drama?

UNIT—V

13. Answer any *four* of the following questions : 1×4=

(a) Who is the father of Sanskrit dramaturgy?

(b) Which is the earliest book on Sanskrit dramaturgy?

(c) Who is the author of 'अमृतमन्थनम्'?

(d) What technical term is used for 'stage manager' in Sanskrit drama?

(e) What is अभिनय?

(7)

14. Answer any *one* of the following questions : 2

(a) Name two pre-Kālidāsian drama found in the history of classical Sanskrit literature.

(b) What is the significance of 'Nāndī' in the drama?

15. Answer the following question : 8

(a) Write a note on the origin and development of Sanskrit drama.

Or

(b) Write a brief note on the post-Kālidāsian dramas.

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TDC (CBCS) Even Semester Exam., 2019

COMMERCE

(2nd Semester)

Course No. : BCP–DSC–201T

(Business Law)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks
for the questions

UNIT—I

1. Answer any *four* from the following as directed : 1×4=4

 (a) Mention one source of Indian business law.

 (b) An agreement enforceable by Law is
 ———.
 (Fill in the blank)

 (c) Who is known as minor?

(*Turn Over*)

(2)

(d) Agreement in restraint of marriage is valid in case of minors.

(Select True or False)

(e) Give one example of void agreement.

2. Answer any *one* of the following questions : 2

(a) Define contract.

(b) Mention two remedies available to an aggrieved party in case of breach of contract.

3. (a) Explain the essential elements of a valid contract.

Or

(b) "No consideration, No contract." Is there any exception to this general rule? Explain.

UNIT—II

4. Answer any *four* of the following as directed :

1×4=

(a) Who is Bailor?

(b) Give one example of contract of guarantee.

(3)

(c) Bailment can be made of ____ goods only.

(Fill in the blank)

(d) An agent can work more than one principal.

(Select True or False)

(e) In a contract of indemnity, the number of parties is

(i) 2

(ii) 3

(iii) 4

(iv) 5

(Choose the correct answer)

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

(a) What do you understand by Contract of Indemnity?

(b) Write two duties of an agent.

6. (a) What is pledge? Distinguish between bailment and pledge. 8

Or

(b) Discuss various types of agency contracts which may be created under the Indian Contract Act, 1872. 8

(4)

UNIT—III

7. Answer any *four* from the following as directed : 1×4=4

   (a) Mention one element of contract of sale.

   (b) What is the meaning of 'Caveat of Emptor'?

   (c) Sale is a executed contract.

   (Select True or False)

   (d) The Sale of Goods Act, 1930 came into force ___.

   (Fill in the blank)

   (e) The Sale of Goods Act, 1930 applies to the whole of India, *except*

   (i) Jammu & Kashmir

   (ii) Goa

   (iii) Assam

   (iv) Himachal Pradesh

   (Choose the correct answer)

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

   (a) What is a contract of sale?

   (b) What do you mean by stipulation?

(5)

9. (a) Distinguish between sale and agreement to sale. 8

   Or

   (b) Explain the rights of an unpaid seller. 8

UNIT—IV

10. Answer any *four* from the following as directed : 1×4=4

   (a) Is registration of partnership firm compulsory?

   (b) Maximum number of partners in a partnership firm (as per Companies Act, 2013) is

   (i) ten

   (ii) twenty

   (iii) fifty

   (iv) thirty

   (Choose the correct answer)

   (c) Mention one content of partnership deed.

   (d) A firm is liable for the wrongful acts of a partner.

   (Select True or False)

   (e) Mention one circumstance under which a partnership is dissolved.

(6)

11. Answer any *one* from the following questions :

(a) What is partnership deed?

(b) Write two features of Limited Liability partnership.

12. (a) Explain the rights of partners.

Or

(b) What are the various circumstances a firm may be dissolved?

UNIT—V

13. Answer any *four* from the following as directed : 1×4=

(a) Mention one negotiable instrument recognized by the Negotiable Instruments Act, 1881.

(b) Give one essential feature of negotiable instrument.

(c) Bearer cheque is payable across the counter of the bank.

(Select True or False)

(7)

(d) Who can cross a cheque?

(e) There are _____ parties to a Bill of Exchange.

(Fill in the blank)

4. Answer any *one* from the following questions : 2

(a) What do you mean by crossing of a cheque?

(b) Define holder in due course.

5. (a) Distinguish between Bill of Exchange and Promissory Note. 8

Or

(b) Under what circumstances does a banker refuse payment of cheque? 8

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TDC (CBCS) Even Semester Exam., 2019

COMMERCE

(2nd Semester)

Course No. : BCPDSC–202T

(Business Math and Statistics)

$$\frac{Full\ Marks : 70}{Pass\ Marks : 28}$$

Time : 3 hours

The figures in the margin indicate full marks for the questions

UNIT—I

1. Answer any *two* of the following questions :

$2×2=4$

(a) Define matrix.

(b) What do you mean by inverse of a matrix?

(c) Name different types of matrix.

2. *(a)* Given $A = \begin{bmatrix} 1 & -2 & 4 \\ 0 & 2 & 1 \\ -4 & 5 & 3 \end{bmatrix}$

Compute Adj A.

4

(Turn Over)

(b) If

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 4 & 2 & 3 \\ 2 & 0 & 1 \end{bmatrix}$$

Find $A^2 - A - I$.

OR

3. (a) Using matrices, solve the following equation :

$$x + y + z = 6$$
$$x - y + z = 2$$
$$2x + y - z = 1$$

(b) What is a square matrix?

(c) Define diagonal matrix and column matrix.

UNIT—II

4. Answer any *two* of the following questions :
   $2 \times 2 =$

(a) State the distinction between $\lim\limits_{x \to a} f(x)$ and $f(a)$.

(b) Write the necessary and sufficient conditions for a function to be maximum.

(c) If $f(x)$ and $g(x)$ are two functions of x, then find

$$\frac{d}{dx}[f(x) \cdot g(x)]$$

5. (a) Discuss the continuity of the following function :

$$f(x) = -x, \qquad x \le 0$$
$$= x, \qquad 0 < x < 1$$
$$= 2 - x, \qquad x \ge 1$$

at 0 and 1. 4

(b) Show that the function $x + \dfrac{1}{x}$ has a maximum and minimum, but the maximum is less than the minimum. 4

(c) Evaluate : 2

$$\mathop{Lt}\limits_{x \to 2} \frac{x^2 - 5x + 6}{x^2 + x - 6}$$

OR

6. (a) Evaluate : $2 \times 2 = 4$

(i) $\mathop{Lt}\limits_{x \to \infty} \dfrac{3x^2 - x + 2}{x^2 + 8x - 1}$

(ii) $\mathop{Lt}\limits_{x \to 0} \dfrac{\sqrt{1 + 2x} - \sqrt{1 - 2x}}{x}$

(b) If $y = \dfrac{x^2 - 1}{x^2 + 1}$, then find $\dfrac{dy}{dx}$. 3

(c) Find $\dfrac{dy}{dx}$, if $3x^4 - x^2 y + 2y^3 = 0$. 3

UNIT—III

7. Answer any *two* of the following questions :

$2 \times 2 = 4$

(a) Write down the relation among mean, median and mode.

(b) What is measure of variation?

(c) Give any two examples of open-end classes.

8. Calculate mean, median, mode and standard deviation from the following data : 10

Marks	0–10	10–20	20–30	30–40	40–50
No. of Students	3	5	10	17	20

Marks	50–60	60–70	70–80	80–90	90–100
No. of Students	30	7	5	2	1

OR

9. From the data given in Q. No. **8**, find the quartile deviation. 10

UNIT—IV

10. Answer any *two* of the following questions :

$2 \times 2 = 4$

(a) Interpret, $r = 0$ and $r = +1$.

(b) Write down the regression equation of X on Y and Y on X.

(c) Distinguish between correlation and regression (any *two* differences).

11. Calculate the correlation coefficient between the marks of Maths and marks of Statistics :

Marks of Maths (X) : 25 35 40 55 45 85 95 90 80 75

Marks of Stat (Y) : 35 45 30 45 55 75 85 70 90 85

$8 + 2 = 10$

Also find r^2.

OR

12. (a) Write a note on Spearman rank correlation. 5

(b) From the data given in Q. No. **11**, calculate the regression coefficient of Y on X. 5

UNIT—V

13. Answer any *two* of the following questions :

$2 \times 2 = 4$

(a) Name two tests for ideal index number.

(b) Give two examples of seasonal variation.

(c) Give two examples of irregular variation.

(Turn Over)

14. *(a)* Fit a linear trend by the method of least squares :

Year	:	2000	2001	2002	2003	2004	2005
Production (in ₹ crore)	:	7	10	12	14	17	24

(b) Write two drawbacks of the method of moving averages.

OR

15. *(a)* Write down the different steps for the construction of index number.

(b) Calculate Fisher's ideal index number from the data given below :

Commodities	Base Year		Current Year	
	Price (in ₹)	Quantity (in kg)	Price (in ₹)	Quantity (in kg)
A	10	15	20	14
B	20	20	30	18
C	30	25	25	25
D	40	15	50	12

★★★