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B.Sc. (Part - III) (Semester - V) Examination, April - 2014
COMPUTER SCIENCE (Paper - 5.5)
Java Programming (Part - I)
Sub. Code : 55325

Day and Date : Thursday, 10 - 04 - 2014 **Total Marks : 40**

Time : 3.00 p.m. to 5.00 p.m.

Instructions : 1) All questions are compulsory.
2) Figures to the right indicates full marks.

Q1) Select correct alternative and rewrite the statement. **[8]**

a) From the following _____ will declare an array and initialize it with five numbers.

i) Array a = new Array(5);

ii) int [] a = {23, 22, 21, 20, 19};

iii) int a [] = new int[5];

iv) int [5] array;

b) You want subclasses in any package to have access to members of a superclass, _____ is the most restrictive access that accomplishes this objective.

i) Public ii) Private

iii) Protected iv) Transient

c) From the following _____cause a compiler error.

i) int[ ] scores = {3, 5, 7};

ii) int [ ][ ] scores = {2,7,6}, {9,3,45};

iii) String cats[ ] = {"Fluffy", "Spot", "Zeus"};

iv) boolean results[ ] = new boolean []{true, false, true};

d) Given a method in a protected class, what access modifier do you use to restrict access to that method to only the other members of the same class?

i) Final ii) Static

iii) Private iv) Protected

e) _____ is valid declaration of a float.

i) float f = 1F; ii) float f = 1.0;

iii) float f= "1"; iv) float f = 1.0d;

f) _____ keyword is used for throwing exception.

i) Catch ii) Try

iii) Throw iv) None of these

g) Packages are used to achieve _____

i) Code reusability ii) Abstraction

iii) Both i) & ii) iv) None of these

h) _____ must be present in abstract class only.

i) Abstract method ii) Final method

iii) Both i) & ii) iv) None of these

Q2) Attempt any Two from following : [16]

a) Explain any eight features of java.

b) Explain different types of inheritance.

c) What is method? Explain method overloading with example.

Q3) Attempt any Four from following. [16]

a) What is byte code?

b) Write steps of execution of Java program.

c) Explain super keyword.

d) What is reader and writer class? Give its example.

e) What is finalize () method? Give its example.

f) What is mean by overloading methods?

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Total No. of Pages : 3

B.Sc. (Part - III) (Semester - V) Examination, April - 2014
ENGLISH (Compulsory)
English for Communication (Paper - C)
Sub. Code : 54880

Day and Date : Thursday, 10 - 04 - 2014 **Total Marks : 40**
Time : 3.00 p.m. to 5.00 p.m.

Instructions : **1) Figures to the right indicate full marks.**
2) All questions are compulsory.

Q1) Rewrite the following sentences choosing the most correct alternative from the ones given below each: [4]

a) The writer, E.V. Lucas found himself in the tightest corner when he was at _____ .

i) Brittany Shop ii) a crowded corner of the city
iii) Christie's iv) Market place

b) Dr. Verghese Courien gives credit of his success to _____ .

i) his talents ii) the team work
iii) his wife iv) his own industry

c) The greatest cause of fatigue, according to Robin Sharma, is _____ .

i) absence of well-disciplined efforts
ii) worry and negative thinking
iii) too much work
iv) over-strain

d) A tall man in a long over-coat in O'Henry's story "After Twenty Years" was _____ .

i) a policeman
ii) Jimmy Wells
iii) a criminal
iv) a person working in a city department

Q2) Write short notes on **any three** of the following: **[12]**

a) The surprising end of the story "After Twenty Years".

b) Essential points to note about will-power.

c) Dr. Varghese's appeal to the younger generation.

d) The significance of the title "Tight Corners".

Q3) Do as directed:

a) Rewrite the following sentences using appropriate articles: **[2]**

i) _____ Sindhudurg, a historical fort was built by the great Maratha King Chhatrapati Shivaji Maharaj.

ii) His friend is _____ M.A. in English.

b) Rewrite the following sentences correcting the use of preposition in them: **[2]**

i) He contacted the voters several times in the election period.

ii) She will arrive at the airport on 2 o'clock in the evening.

c) Rewrite the following sentences filling in the gaps with 'a little', 'little', 'a few', 'few', 'much', 'many', 'some', 'any', etc. whichever is appropriate: **[2]**

i) The police found very _____ clues to the murderer's identity.

ii) I have _____ pleasure in introducing our renowned speaker.

d) Rewrite the following sentences using proper verb forms in them: **[2]**

i) The police is guarding the Parliament Building in New Delhi.

ii) One of the players in our cricket team were injured.

Q4) Describe **any two** of the following: **[8]**

a) A gas stove

b) The process of washing clothes in a washing machine.

c) A laptop

Q5) Write a well-organized passage of about 200 to 250 words on **any one** of the following topics with the help of the points given below: **[8]**

a) **Computer: A Friend of Man:**

Present Age is called the age of computers --- it is used in every field --- it has become a part of our everyday life --- functioning of computer --- uses of computers --- just like a super-brain --- uses of computers in commercial, economic and as well as medical field --- robots and their uses --- computer-controlled production system --- software development in India --- .

b) **Ragging: A Threat to the Youth:**

Ragging means playing practical jokes --- in colleges and college hostels seniors play practical jokes on fresher --- a sort of physical and mental torture for the fresher --- a kind of harassment - many activities practiced as ragging are highly objectionable --- positive effects of ragging, but one cannot justify it --- it is a bad practice --- it has destroyed lives of many innocent students --- measures to stop ragging --- .

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B.Sc. (Part - III) (Semester - V) Examination, April - 2014
PLANT PROTECTION (Paper - VI)
Plant Insect Pest and Their Management
Sub. Code : 54956

Day and Date : Wednesday, 09 - 04 - 2014 **Total Marks : 40**

Time : 03.00 p.m. to 5.00 p.m.

Instructions :
1) **All questions are compulsory.**
2) **Draw neat labelled diagrams wherever necessary.**
3) **Figures to the right indicate full marks.**

Q1) Select the most correct alternative among the following and rewrite the sentences [8]

a) Birds are important in _____ control.
   i) Mechanical ii) Biological
   iii) Legal

b) Nemagon is used for control _____.
   i) Nematodes ii) Birds
   iii) Fungi

c) Cabbage catterpillers feeds on _____.
   i) Stem ii) Leaves
   iii) Flowers

d) Bromodiolone is used to control.
   i) Insects ii) Nematodes
   iii) rodents

e) _____ is used as antidote
   i) Endrin ii) Atropin
   iii) Cypermethrin

f) Worker is the family member of _____.
   i) Termites ii) Aphids
   iii) White flies

g) Leaf miners feeds _____.
   i) on leaves ii) Inside leaves
   iii) root

h) _____ is plant originated insecticide

i) carbaryl ii) phorate

iii) Nicotine

Q2) Attempt any two of the following : [16]

a) Give symptoms of pesticides poisoning during manufacture and application.

b) Describe in brief Biological control of insect pest.

c) Describe marks of identification, nature of damage, life cycle and management of paddy leaf hopper.

Q3) Write short notes on any four of the following : [16]

a) White fly

b) Nicotin

c) Custard apple - mealy bugs.

d) Effect of pesticide on human being.

e) L.D - 50

f) Lindane

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B.Sc. (Part - III) (Semester - V) Examination, April. - 2014
PLANT PROTECTION (Paper - V)
Plant Pathogens and their Management
Sub. Code : 54955

Day and Date : Monday, 07 - 04 - 2014 **Total Marks : 40**

Time : 3.00 p.m. to 5.00 p.m.

Instructions : 1) **All questions are compulsory.**
2) **Draw neat labelled diagrams wherever necessary.**
3) **Figures to the right indicate full marks.**

Q1) Select the most correct alternative among the following and rewrite the sentences : **[8]**

a) 'NPPRI' is situated at _____.
i) New Delhi ii) Hyderabad
iii) Pune iv) Mumbai

b) _____ was concerned with Agharkar Research Institue Pune.
i) J.N. Dastur ii) M.N. Kamat
iii) K.C. Mehta iv) M.K. Patel

c) Early blight of Tomato is _____ disease.
i) Bacterial ii) Phytoplasmal
iii) Fungal iv) Viral

d) Black stem rust of wheat is caused by _____.
i) Puccinia Purpurea ii) Puccinia recondata
iii) Puccinia Sacchari iv) Puccinia graminis triticii

e) Oidium sp causes _____ diseases in crops.
i) rust ii) smut
iii) anthracnose iv) powdery mildew

P.T.O.

f) _____ is the causal organism of the tar spot disease of Ficus.

i) Cercospora Spp. ii) Phyllachora Spp.

iii) Puccinia Spp. iv) Alternaria Spp.

g) Ceresan is _____ Fungicide.

i) Sulphur ii) Mercury

iii) Benzene iv) Copper

h) The Fungicides which is taken up and translocated in the plant is known as _____.

i) Protectants ii) Systemic

iii) Fungistasis iv) Eradicants.

Q2) Attempt any two of the following : **[16]**

a) Define biological control. Explain their role in plant disease control with suitable examples.

b) Explain properties, mode of action and uses of bavistin and vitavax.

c) Give symptoms, causal organism, disease cycle and management of head smut of jowar or tikka disease of groundnut.

Q3) Attempt any four of the following : **[16]**

a) Losses due to Pathogens.

b) Leaf curl of Tobacco.

c) White rust of Amaranthus.

d) Work of Indian Plant Pathologists.

e) Copper oxychloride.

f) Characters of an ideal fungicides.

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