Roll No. ....

B.C.A. (III)

1736   **Comm. Skills**

B.C.A. Part-III EXAMINATION - 2023

BCA 306 : Communication Skills

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1. (a) Choose the correct synonym for each underlined word below :

   (i) Neetu was looking for the correct <u>answer</u> to this problem.

     (a) rejoin

     (b) reply

     (c) ask

     (d) borrow

(ii) I like studying about animals the most.
  (a) hate
  (b) absent
  (c) enjoy
  (d) difficult

(iii) I chose to study Science and Maths.
  (a) decide
  (b) made
  (c) bought
  (d) washed

(iv) My goal is to become a naturalist.
  (a) thought
  (b) award
  (c) study
  (d) desire

(v) The best learning comes through observing things in nature.
  (a) changing
  (b) seeing
  (c) hearing
  (d) touching

(vi) The project worked exactly as planned.
  (a) found
  (b) arranged
  (c) made
  (d) worked

(vii) I recorded my findings in a diary.
  (a) taped
  (b) used
  (c) locked
  (d) wrote

(viii) The college professor was wise and gave lot of good advice.
  (a) intelligent
  (b) funny
  (c) ordinary
  (d) ugly

(b) Fill in the blanks with antonyms of given words :
  (i) He has a _____ house in Mumbai. (big).
  (ii) The trekking on the mountain was so _____. (easy)

(iii) The floor is _____ and needs to be washed (clean)

(iv) Going around the forest at night is _____ (safe).

(v) Those kids were so _____ in my school. (friendly)

(vi) The rolex watches are very _____ (cheap)

(vii) Studying up till late is a _____ habit (good)

(viii) The sirens in my town are very _____. (quiet)

2. (a) Define motivation. Discuss any two theories of motivation. Draw diagram where necessary.

(b) What is verbal and non-verbal communication? Discuss various barriers to communication.

3. (a) How is listening skill important to us? Discuss barriers which are faced during listening. Also suggest ways to overcome those barriers.

(b) What do you mean by Group Discussion. What are its advantages and disadvantages. Also discuss Do's and Don'ts during Group Discussion.

4. (a) What are basic principles of effective writing? Write, an application to your manager convincing him to increase deadline of your project work due to technical issues.

5. (a) Explain the importance of Reading skills. How good reading and effective listening help in effective speaking?

(b) Which are various fluency enhancement techniques that can make our communication effective?

(b) Which are basic revision techniques that are helpful during examinations?

6. (a) Discuss in detail various techniques and methods of preparing effective business presentations. Also mention various tools that can be used for presentation.

(b) What do you mean by Voice Modulation? Describe various factors to be considered for managing voice modulation.

7. (a) What do you understand by the term General Awareness? Explain in detail.

(b) Discuss various measures that can be taken to improve oral and written communication.

8. (a) Write short notes on following :

(i) Stage fear

(ii)   Anchoring

(iii)   Mind Mapping

(iv)   Role Play

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B.C.A. (III)

1731

Java Prog.

B.C.A. Part-III EXAMINATION - 2023

BCA 301 : Java Programming

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1. (i) What is an operator?   2×8=16

(ii) What is JVM?

(iii) Differenciate between exception 4 error.

(iv) What is wrapper class?

(v) What is Thread?

(vi) What is an Interface?

(vii) What is an Applet?

(viii) Differenciate between Expression and statement.

2. (a) What do you mean by Token? Explain any four token with an example.

6+10=16

Or

(b) What do you mean visibility mode? Explain any five visibility mode with an example.

3. What do you mean by control statements? Explain else..if ladder statement with an example.

6+10=16

4. What do you mean by class? Explain constructor and static member of a class with an example.

6+10=16

5. Define (any four)

4x4=16

(a) Garbage collector

(b) Class path

(c) Synchronization of thread

(d) Labelled loop

(e) Symbolic constants

6. Differenciate between (any four) :   4x4=16

    (a)   Late and early binding

    (b)   Applet and Application

    (c)   Finalize and Abstract method

    (d)   Entry and exit loop

    (e)   Overloading and overridden method

7. What do you mean by Inheritence? How many type of inheritence support in Java? Explain any three with an example.   4+4+8

8. What do you mean by thread priority? Explain life cycle of a thread with an example.   8+8

Or

Explain the life cycle of Applet and write an applet program to getting input from the user.   6+10

Roll No. ....

B.C.A. (III)

1733

Compt. Netw.

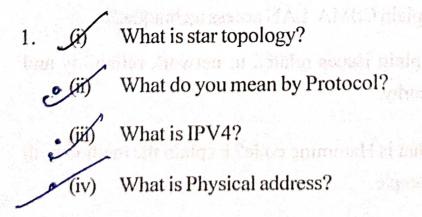## B.C.A. Part-III EXAMINATION - 2023

BCA 303 : Computer Networks

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1.   (i)   What is star topology?

     (ii) What do you mean by Protocol?

     (iii) What is IPV4?

     (iv) What is Physical address?

(v) What is the difference between baseband and broadband?

(vi) What do you mean by serial communication?

(vii) What is Coaxial cable?

(viii) Why modulation is done?

2. (a) Explain following :

(i) LAN

(ii) WAN

(iii) MAN

(b) What is switching? Explain circuit, packet and network switching.

3. Explain ISO-OSI model. Explain functions of each layer.

4. (a) Explain CSMA LAN access technique.

(b) Explain issues related to network reliability and security.

5. (a) What is Hamming code? Explain the method with example.

(b) Explain various signal formats used in LAN.

6. (a) Explain Token ring and token bus LAN access techniques.

(b) Explain various transmission media.

7. Explain following :

(i) Modulation

(ii) Multiplexing

(iii) Serial Communication standards

(iv) Broadcast techniques

8. Write short notes on :

(a) Network Protocols

(b) Signal encoding and decoding

(c) NIC

(d) SMTP Protocol.

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B.C.A. (III)

1732

B.C.A. Part-III EXAMINATION - 2023

BCA 302 : Multimedia Tools

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1. (i) Define multimedia.

    (ii) Write any 3 types of text format.

    (iii) What is BMP & PNG.

    (iv) Write any 3 software name use in multimedia.

(v) Write is sound sampling.

(vi) What is flash?

(vii) What is the role of animation in multimedia?

(viii) What is difference between mono and stero sound?

2. Define multimedia? Explain various features and application of multimedia in detail.

3. (a) How image is important in multimedia? Explain its attributes and various types of format.

(b) What is sound? Explain digital sound.

4. What is animation? Explain its principal and use of animation in multimedia. Also explain its types.

5. (a) How to use video on PC. What are the interlacing and non interlacing. Also explain video standards.

(b) What is font? Explain some fonts desiging and editing tools.

6. Write short notes on :

(i) OLE

(ii) Graphic life formats

(iii) Paint shop pro animator

(iv) NTSC and PAL

7. (a) How multimedia can be used in web? Explain in detail.

(b) Virtual Reality on the web. Explain.

--x--

Roll No. ....

B.C.A. (III)

1734

Web Tech.

B.C.A. Part-III EXAMINATION - 2023

BCA 304 - Web Technologies

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1. (i) What is Application web server?

   (ii) What is ASP. NET framework?

   (iii) What do you mean by validation controls?

   (iv) What is session state?

   (v) What do you mean by data bound controls?

(vi) What is data grid?

(vii) What is XML.

(viii) What is XML parser?

(ix) What is SOAP?

(x) Give two difference between C# and Java.

2. Explain server controls and client controls. How do we add controls to a web form?

3. (a) Explain client side and server side validation.

(b) Explain Calendar control.

4. (a) Explain architecture of ADO. NET.

(b) Explain how to create connection using ADO. NET.

5. (a) Explain .NET framework with suitable example.

(b) Explain data adapter and dataset class.

6. Develop a simple web page that asks the user to input (roll no., name, marks), (marks should have validation) and store into database using server side scripting.

7. (a) Explain structure of C# program.

(b) Explain serialization and reflection.

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Roll No. ....

B.C.A. (III)

1735   Sys. Anal. and Desi.

B.C.A. Part-III EXAMINATION - 2023

BCA 305 : System Analysis and Design

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any four question from the remaining questions.

2. All questions carry equal marks.

1. (i) What is Brainstorming?

   (ii) Differentiate between open and closed system.

   (iii) What is Delphi inquiry?

   (iv) Differentiate between physical and logical design.

   (v) Differentiate between maintenance and enhancement.

(vi) Differentiate between obtrusive and unobtrusive observation.

(vii) Differentiate between formal and informal system.

(viii) List out various characteristics of a system.

2. (a) Explain various types of system elements through which a system can be build up.

(b) What do you understand by feasibility of a system? Explain steps to plan a feasibility report.

3. What is SDLC? Explain various phases of SDLC in detail.

4. Write short notes on following :

(a) Prototyping

(b) Programming standards

(c) Economic and Legal feasibility

(d) Decision table and decision tree

5. What are information gathering tools? Explain different types of information gathering tools which are used at the time of proposed system planning.

6. (a) Draw a O-level and 1-level DFD for college management system.

(b) Explain various types of system.

7. What is structured analysis? What are structured analysis tools ? Explain different types of structured analysis tools.

8. Write short notes on following :

    (a) Types of testing

    (b) Quality Assurance

    (c) Types of Forms

    (d) Threats to system security

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