

No. of Printed Pages : 3

MES-033

00251

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

December, 2011

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions carry equal weightage.*

(ii) *Answer all questions.*

1. Answer the following question in about 600 words :

What is an Operating System ? Discuss the features of UNIX Operating System.

OR

Do you support the view that the Internet can 'teach' and therefore has pedagogic value ?
Examine the role of Internet in

- (a) Increasing learner autonomy
- (b) Proving an interactive learning environment.

2. Answer the following question in about 600 words :

What is 'World Wide Web' (www) ? Discuss the use of worldwide web in education. How does www promote active learning ?

OR

What is 'Authorware'. How is it different from other authoring tools ? Discuss the various stages of authoring.

3. Write notes on *any four* of the following in about 150 words each.

- (a) Primary and Secondary storage devices.
- (b) Numeric processing versus symbol processing.
- (c) Internet Protocol
- (d) Virtual Reality
- (e) Mobile Computing
- (f) Database Management System
- (g) Artificial Intelligence
- (h) Flowcharting

4. Answer the following question in about 600 words :

Suppose you are required to provide web-based academic support and guidance to your students. Discuss how you would use Email List, Discussion Forum, Online Chat, Blog etc., to achieve your goal.



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No. of Printed Pages : 2

MES-033

01871

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2012

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

-
- Note :** (i) *All questions carry equal weightage.*
(ii) *Answer all questions.*
-

1. Answer the following question in about 600 words :

Define ' Algorithm '. Discuss the characteristics of Algorithm and describe control mechanisms and control structures with reference to Algorithm.

OR

Discuss the advantages of using multimedia in Education. What criteria would you use to decide the suitability of Multimedia in a specific educational setting ?

2. Answer the following question in about 600 words :

What is Database Management System (DBMS) ?
What are the advantages of using DBMS ?
Illustrate with an example .

OR

Discuss how web - based learning has opened new possibilities for expanding access to education , allowing synchronous /asynchronous communication and encouraging self - learning.

3. Write notes on *any four* of the following in about 150 words each.

- (a) System Software and Application Software.
- (b) Web Browser
- (c) Input and Output Devices.
- (d) Computer Simulation
- (e) Distributed Computing
- (f) Telematics
- (g) Learning Management System
- (h) Operating System.

4. Answer the following question in about 600 words :

You are required to plan a website for a school. What information and services would you place on the website ? How would you facilitate interaction between teachers and students through the website ?

No. of Printed Pages : 2

MES-033

00496

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

December, 2012

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

-
- Note :** (i) *All questions carry equal weightage.*
(ii) *All questions are compulsory.*
-

1. Answer the following question in about 600 words :

Explain the concept of algorithm. Discuss the characteristics of algorithm.

OR

Describe the parts that generally constitute a browser.

2. Answer the following question in about 600 words.

Explain the term, 'animation'. Describe its use in education with examples.

OR

Critically discuss the utility of Internet for educational purposes at the school level. Illustrate your answer with suitable examples.

3. Answer *any four* of the following questions in about **150** words each.

- (a) Explain the differences between primary and secondary storage.
- (b) Describe briefly the precautions to be taken while using E-mail for communication.
- (c) List any three topics that can be taught effectively with the help of multimedia. Give reasons for your selection of topics.
- (d) Write a short note on 'edutainment'.
- (e) Describe the use of MS EXCEL for educational institutions.
- (f) Explain the meaning of author ware.

4. Answer the following question in about **600** words.

Suppose you want your students to carry out a project collaboratively on a topic you have taught in your class. Discuss the tools you would advise your students to use in the project.

No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2013

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

-
- Note :** (i) *All questions carry equal weightage.*
(ii) *All questions are compulsory.*
-

1. Answer the following question in about **600 words**.

Explain the importance of coding of algorithm.

Discuss the elementary data types used in 'C' language.

OR

Explain the use of Listserv and Usenet News.

2. Answer the following question in about **600 words**.

Explain the meaning of authoring tool. Discuss any three types of authoring tools and their use for imparting education.

OR

Discuss the use of computer for creating and sharing documents.

3. Answer *any four* of the following questions in about **150 words** each.

- (a) Describe briefly three input and three output devices.
- (b) Describe an e mail address in terms of its various parts.
- (c) Write a short note on web based intelligent tutoring system.
- (d) Write a short note on any four tools used for collaborative teaching and learning.
- (e) Write a short note on 'Director', a commonly used in multimedia authoring programme.
- (f) Explain the use of world wide web for education.

4. Answer the following question in about **600 words**.

Discuss the role of modern technology in enhancing learner autonomy in acquiring required competency.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

December, 2013

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions carry equal weightage.*
(ii) *All questions are compulsory.*

1. Answer the following questions in about **600 words**.

What is Flowcharting ? Draw and describe the various symbols used in preparing Flowcharts.

OR

What is a Web browser ? Describe the components of a web browser. List any three popular web browsers.

2. Answer the following question in about **600 words**.

Discuss how information and Communication Technology (ICT) will impact education in future. Substantiate your argument with examples

OR

Describe the various types of computer software.
Give suitable examples.

3. Write notes on **any four** of the following in about **150 words** each :

- (a) Internet protocol
- (b) Local Area Network
- (c) Storage Devices
- (d) Artificial Intelligence
- (e) Spam
- (f) Macromedia Director

4. Answer the following question in about **600 words**.

Suppose you are required to teach secondary school students. Discuss how you would use web resources email and blog to make your teaching innovative interactive and interesting.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2014

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions carry equal weightage.*

(ii) *Answer all questions.*

1. Answer the following question in about 600 words.

What is the role of 'control structure' in a programming language ? Describe the statements used in 'C' programming language to facilitate the control.

OR

Discuss the features of e-mail. What are the steps involved in attaching a file you would like to mail ?

2. Answer the following question in about 600 words.

What is Authorware ? Describe the features of Authorware and different stages of Authoring.

OR

Describe the major components of expert system. Discuss their use in education.

3. Write notes on **any four** of the following in about **150** words each.
- (a) Input and Output Devices
 - (b) Hypertext
 - (c) Bluetooth
 - (d) Numeric processing Vs Symbol processing
 - (e) Algorithm
 - (f) Telematics
4. Answer the following question in about **600** words.
- “Information and Communication Technology leads to democratisation of higher education”. Do you agree with this statement ? Justify your answer.



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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

December, 2014

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions carry equal weightage.*
(ii) *All questions are compulsory.*

1. Answer the following question in about 600 words.
Discuss the evolution and types of operating systems.

OR

Describe the basic elements of a communication system. Discuss the mechanisms of communication between computers.

2. Answer the following question in about 600 words.
Describe the ways of web searching. Discuss any three types of search tools.

OR

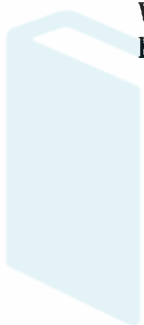
Explain the meaning and objectives of database management system.

3. Write short note on **any four** of the following in about **150** words each.

- (a) Editing worksheet data
- (b) Good authoring practice
- (c) Computer and mass education
- (d) Virtual reality in education
- (e) Telematics
- (f) Learning management system

4. Answer the following question in about **600** words.

What is a Web page ? Describe the steps to design home page for your school.



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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2015

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

- Note :** (i) *All questions carry equal weightage.*
(ii) *All questions are compulsory.*

1. Answer the following question in about 600 words :

Describe with example the basic building blocks of multimedia content that you may like to develop for your students.

OR

Discuss the use of computer for text creation and editing.

2. Answer the following question in about 600 words :

Explain the differences between systems software and application software.

OR

Discuss any two techniques of algorithm development.

3. Write short notes on **any four** of the following in about **150** words each :

- (a) world wide web
- (b) hyperlink
- (c) electronic bookmark
- (d) local area network
- (e) listserv
- (f) web-based Intelligent Tutoring Systems

4. Answer the following question in about **600** words :

Select a topic, which you would like to teach. Develop a plan for strengthening teaching and student support with the help of computer technology. Elaborate the plan.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
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TECHNOLOGY (PGDET)**

Term-End Examination

December, 2015

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions are compulsory.*
(ii) *All questions carry equal weightage.*

1. Answer the following question in about 600 words :
What do you understand by 'Expert Education System' ? Which factors are crucial for a good expert system and why ?

OR

What is an 'Internet Protocol' ? How would you set up a Local Area Network (LAN) for a school ?

2. Answer the following question in about 600 words :
What is 'Educational Multimedia Programme' ? How does multimedia facilitate learning ? Explain with the help of examples.

OR

What is a 'Web-Browser' ? How would you configure your internet explorer ?

3. Answer **any four** of the following in about **150** words each :

- (a) Dynamic Programming
- (b) Sakshat web portal
- (c) Characteristics of an algorithm
- (d) TelNet
- (e) Authorware Authoring Tool
- (f) Interactive Technology
- (g) Artificial Intelligence

4. Answer the following in about **600** words :

Mention the different technologies that facilitate collaborative learning and identify those that you consider are suitable for your educational institution. Justify your choice in the light of your school situation.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2016

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) *All questions are compulsory.*
(ii) *All questions carry equal weightage.*

1. Answer the following question in about 600 words :

What is an 'Operating System' ? Explain the features of any one operating system that you have studied.

OR

Discuss the use of database management system for managing a school.

2. Answer the following question in about 600 words :

What are the major criteria for evaluating educational media ? Explain with justification.

OR

Which are the major tools and services available on the Internet ? Explain the educational uses of each of them.

3. Answer **any four** of the following in about **150** words each :

- (a) Artificial Intelligence
- (b) Search Engine
- (c) Write a short note on LAN
- (d) Gopher
- (e) Optical storage devices
- (f) Ensuring quality of online learning material
- (g) Define telematics and its use in education

4. Answer the following question in about **600** words :

Select a topic that you would like to teach using multimedia and explain the benefits that you will get if multimedia is used.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

December, 2016

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : All questions carry equal weightage. Answer all questions.

1. Answer the following question in about 600 words :

Discuss the role of multimedia in education. What criteria would you use to evaluate the appropriateness of multimedia in an educational setting ? Substantiate your answer with suitable examples.

OR

Explain the use of a Database Management System (DBMS) in the context of an educational institution. What are the advantages of using DBMS ? Describe the components of MS Access.

2. Answer the following question in about 600 words :

What is a Web Browser ? Explain its utility in an educational organisation.

OR

What is Macromedia Director ? Explain its use for developing teaching aids.

3. Write short notes on **any four** of the following in about **150** words each :

- (a) Data types in 'C' Programming language
- (b) Primary and secondary storage devices
- (c) Local Area Network (LAN) and Wide Area Network (WAN)
- (d) Distributed computing
- (e) Intelligent Tutoring Systems
- (f) Hypermedia and non-linear access

4. Answer the following question in about 600 words :

What information and services, in your opinion, should be available on the website of a college ? Justify your answer with examples.

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No. of Printed Pages : 2

MES-033

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (PGDET)**

Term-End Examination

June, 2017

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

- Note :*
- (i) *All questions carry equal weightage.*
 - (ii) *Answer all questions.*

1. Answer the following question in about 600 words :

Discuss the educational use of the World Wide Web (WWW) with suitable examples.

OR

What is an 'Algorithm' ? What are its characteristics ? Describe the different types of control structures used in developing Algorithms.

2. Answer the following question in about 600 words :

What is Authorware ? Describe the main features of Authorware and different stages of authoring.

OR

- (a) What is data type ? Describe various data types used in 'C' programming language.
 - (b) What is a variable ? State the rules for specifying variable names in 'C' programming language.
3. Write short notes on **any four** of the following in about **150** words each :
- (a) Communication devices
 - (b) System software and application software
 - (c) Mobile computing
 - (d) Web-based education
 - (e) Artificial Intelligence
 - (f) Flow charting
4. Answer the following question in about 600 words :
- Explain in detail how computer technology can support mass education and life long learning.

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No. of Printed Pages : 4

MES-033

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**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (MA) (EDU) / (PGDET)**

Term-End Examination

December, 2017

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : All questions carry equal weightage. Answer all questions.

1. Answer the following question in about 600 words :

What is software ? Distinguish between system software and application software with examples.

OR

Discuss the advantages of using database management systems for management of educational institutions.

2. Answer the following question in about 600 words :

Describe the World Wide Web (WWW). How has the emergence of WWW impacted teaching and learning ?

OR

What is Authorware ? How is it different from other authoring tools ? Discuss the various stages of authoring.

3. Write notes on **any four** of the following in about **150** words each :

- (a) Flowcharting
- (b) Artificial Intelligence
- (c) Learning Management Systems
- (d) Algorithm
- (e) Storage devices
- (f) Internet protocol

4. Answer the following question in about **600** words :

Assuming that you are teaching in a secondary school, discuss how you will use the potential of internet to make the learning process more effective and enjoyable. Describe with examples how you will integrate internet - based support in your overall scheme of teaching.

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एम.ई.एस.-033

शिक्षा में परास्नातक/शिक्षण प्रौद्योगिकी में परास्नातक
डिप्लोमा (एम.ए.) (शिक्षा) / (पी.जी.डी.ई.टी)
सत्रांत परीक्षा

दिसम्बर, 2017

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : सभी प्रश्नों की भारिता समान है। सभी प्रश्न अनिवार्य हैं।

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

सॉफ्टवेयर क्या है? सिस्टम सॉफ्टवेयर तथा एप्लीकेशन सॉफ्टवेयर में उदाहरण सहित अन्तर स्पष्ट कीजिए।

अथवा

शिक्षण संस्थानों के प्रबंधन में डाटाबेस मैनेजमेंट सिस्टम को प्रयोग करने के लाभों का वर्णन कीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

वर्ल्ड वाइड वेब (WWW) का वर्णन कीजिए। WWW के उद्भव ने शिक्षण और अधिगम को कैसे प्रभावित किया है?

अथवा

ऑथरवेयर क्या है? यह अन्य लेखन उपकरणों से कैसे भिन्न है? ऑथरिंग के विविध चरणों का वर्णन कीजिए।

3. निम्नलिखित में से **किन्हीं चार** पर टिप्पणी लिखिए। प्रत्येक लगभग **150 शब्द** में हो :

- (a) फ्लोचार्टिंग
- (b) आर्टीफिशियल इन्टेलीजेन्स
- (c) अधिगम प्रबंधन प्रक्रम
- (d) एल्गोरिद्म
- (e) स्टोरेज उपकरण
- (f) इन्टरनेट प्रोटोकॉल

4. निम्नलिखित प्रश्न का उत्तर लगभग **600 शब्दों** में दीजिए :

मान लीजिए की आप एक माध्यमिक विद्यालय में पढा रहे हैं, अधिगम प्रक्रिया को और प्रभावी व रुचिपूर्ण बनाने के लिए आप इन्टरनेट की क्षमताओं का प्रयोग कैसे करेंगे? आप अपनी सम्पूर्ण शिक्षण योजना में इन्टरनेट आधारित सहायता को किस प्रकार समावेशित करेंगे? वर्णन कीजिए।

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No. of Printed Pages : 4

MES-033

00548

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (MA) (EDU) / (PGDET)**

Term-End Examination

June, 2018

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : Answer all questions. All questions carry equal weightage.

1. Answer the following question in about 600 words :

Define 'Algorithm'. Describe the characteristics of Algorithm and different control mechanisms and control structures used for writing Algorithm.

OR

Describe an 'Operating System'. Discuss the features of Windows Pperating System.

2. Answer the following question in about 600 words :

Define 'Artificial Intelligence'. Discuss the effects of use of standalone intelligent tutoring systems and web-based intelligent tutoring systems in education.

OR

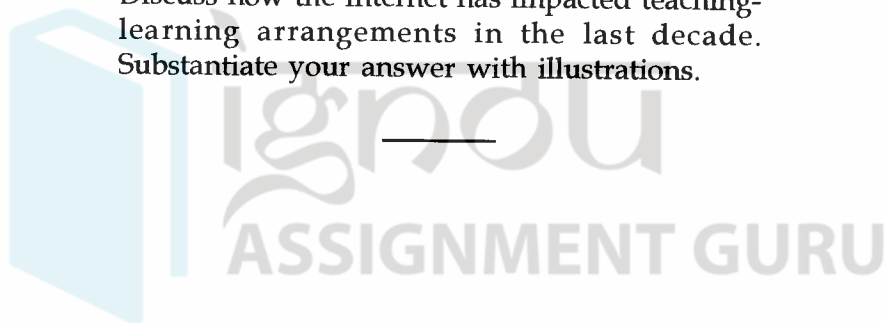
What is multimedia ? Discuss different multimedia building blocks giving suitable examples.

3. Write notes on **any four** of the following in about **150** words each :

- (a) Telematics
- (b) Macromedia Director
- (c) Expert Systems in Education
- (d) Input and Output devices
- (e) 'www' in education
- (f) Web Browser

4. Answer the following question in about **600** words :

Discuss how the Internet has impacted teaching-learning arrangements in the last decade. Substantiate your answer with illustrations.



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एम.ई.एस.-033

शिक्षा में परास्नातक/शिक्षण प्रौद्योगिकी में परास्नातक
डिप्लोमा (एम.ए.) (शिक्षा)/(पी.जी.डी.ई.टी)
सत्रांत परीक्षा

जून, 2018

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों की भारिता समान है।

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :
'एल्गोरिद्म' को परिभाषित कीजिए। एल्गोरिद्म के लक्षणों तथा एल्गोरिद्म लिखने में प्रयोग होने वाली विभिन्न नियन्त्रण प्रक्रियाओं तथा नियन्त्रण संरचनाओं का वर्णन कीजिए।

अथवा

'ऑपरेटिंग सिस्टम' का वर्णन कीजिए। विन्डोज् आपरेटिंग सिस्टम के लक्षणों की चर्चा कीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :
'कृत्रिम बुद्धि' (Artificial Intelligence) को परिभाषित कीजिए। शिक्षा में स्टैण्डअलोन इन्टेलीजेन्ट ट्यूटोरिंग सिस्टम्स तथा वेब-बेस्ड इन्टेलीजेन्ट ट्यूटोरिंग सिस्टम्स के प्रयोग के प्रभावों का वर्णन कीजिए।

अथवा

मल्टीमीडिया क्या है? उचित उदाहरण देते हुए विभिन्न मल्टीमीडिया बिल्डिंग ब्लॉक्स का वर्णन कीजिए।

3. निम्नलिखित में से किन्हीं चार प्रश्नों के उत्तर दीजिए। प्रत्येक लगभग 150 शब्दों में दें।
- (a) टेलीमेटिक्स
 - (b) मैक्रोमीडिया डायरेक्टर
 - (c) शिक्षा में एक्सपर्ट सिस्टम्स
 - (d) इनपुट व आउटपुट उपकरण
 - (e) शिक्षा में 'www'
 - (f) वेब ब्राउसर
4. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :
विगत दशक में शिक्षण-अधिगम व्यवस्थाओं को इन्टरनेट ने किस प्रकार प्रभावित किया है? अपने उत्तर की उदाहरणों द्वारा पुष्टि कीजिए।

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No. of Printed Pages : 4

MES-033

00791

**MASTER OF ARTS (EDUCATION)/POST
GRADUATE DIPLOMA IN EDUCATIONAL
TECHNOLOGY (MA) (EDU) / (PGDET)**

Term-End Examination

December, 2018

MES-033 : COMPUTER TECHNOLOGY

Time : 3 hours

Maximum Weightage : 70%

Note : (i) All questions are compulsory.

(ii) All questions carry equal weightage.

1. Answer the following question in about 600 words :

Define 'Algorithm'. Discuss the control mechanisms and control structures used in development of Algorithm.

OR

What is an 'Operating System' ? Discuss the features of Windows based operating system.

2. Answer the following question in about 600 words :

What is Database Management System (DBMS) ? Discuss the advantages of using DBMS with the help of an example.

OR

Explain the main components of E-mail. How can E-mail be used to support teaching-learning ? Give examples.

3. Answer any four of the following in about 150 words each :

- (a) Internet Protocol
- (b) Input and Output Devices
- (c) Flowcharting
- (d) Artificial Intelligence
- (e) Virtual Reality
- (f) Primary and Secondary Storage
- (g) Telematics
- (h) Computer Simulation

4. Answer the following question in about 600 words :

Suggest how the website of a school can be used to extend teaching support to its students. Illustrate your answer.

—

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एम.ई.एस.-033

शिक्षा में परास्नातक/शिक्षण प्रौद्योगिकी में परास्नातक
डिप्लोमा (एम.ए.) (शिक्षा)/(पी.जी.डी.ई.टी.)
सत्रांत परीक्षा
दिसंबर, 2018

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : (i) सभी प्रश्न अनिवार्य हैं।

(ii) सभी प्रश्नों की भारिता समान है।

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।
'ऐल्गोरिथ्म' को परिभाषित कीजिए। ऐल्गोरिथ्म के विकास में प्रयुक्त नियंत्रण पद्धतियों तथा नियंत्रण संरचनाओं की चर्चा कीजिए।

अथवा

'ओपरेटिंग सिस्टम' क्या है? विन्डोज आधारित ओपरेटिंग सिस्टम की विशेषताओं की चर्चा कीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।
डेटाबेस प्रबंधन प्रणाली (DBMS) क्या है? DBMS के उपयोग के लाभों की चर्चा उदाहरण की सहायता से कीजिए।

अथवा

ई-मेल के मुख्य घटकों की व्याख्या कीजिए। शिक्षण-अधिगम की सहायता हेतु ई-मेल का उपयोग कैसे किया जा सकता है? उदाहरण दीजिए।

3. निम्नलिखित में से किन्हीं चार प्रश्नों के उत्तर प्रत्येक लगभग 150 शब्दों में दीजिए।

- (a) इंटरनेट प्रोटोकॉल
- (b) इनपुट एवं आउटपुट डिवाइसेस
- (c) फ्लोचार्टिंग
- (d) आर्टिफिशियल इंटेलिजेन्स
- (e) वर्चुअल रिएलिटी
- (f) प्राथमिक एवं द्वितीयक भंडारण
- (g) टेलिमैटिक्स
- (h) कंप्यूटर सिमुलेशन

4. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।
किसी विद्यालय का वेबसाइट किस प्रकार इसके विद्यार्थियों हेतु शिक्षण की सहायता के लिए विस्तारित किया जा सकता है? सुझाव दीजिए। अपने उत्तर को स्पष्ट कीजिए।

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No. of Printed Page : 4

MES-033

**MASTER OF ARTS (EDUCATION)/POST GRADUATE
DIPLOMA IN EDUCATIONAL TECHNOLOGY (MA)
(EDU)/(PGDET)**

Term-End Examination, 2019

MES-033 : COMPUTER TECHNOLOGY

Time : 3 Hours]

[Maximum Weightage : 70%

Note : All questions are compulsory. All questions carry equal weightage.

1. Answer the following question in about **600** words.
Can web-based learning substitute classroom-based learning ? Substantiate your answer with examples.

OR

Discuss how the use of multimedia can enhance the learning experience.

2. Answer the following question in about **600** words.
Define 'Artificial Intelligence'. What is the difference between Numeric Processing and Symbol Processing?

OR

What is a Web Browser ? For what purposes do you use a Web Browser ? Give examples.

3. Answer **any four** of the following in about **150** words each:

- (a) System Software and Application Software.
- (b) Author ware
- (c) Database Management System (DBMS).
- (d) Algorithm
- (e) Virtual Reality
- (f) Simulation
- (g) Social Networking sites
- (h) Educational Multimedia

4. Answer the following question in about **600** words.

Do you agree that use of computer technology in education provides greater freedom to the learners, thus enhancing learner autonomy ? Substantiate your answer with examples from your experience.

----- X -----

एम.ई.एस.-033

शिक्षा में परास्नातक/शिक्षण प्रौद्योगिकी में
परास्नातक डिप्लोमा (एम.ए.) (शिक्षा)/
(पी.जी.डी.ई.टी.)

सत्रांत परीक्षा, 2019

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों की भारिता समान है।

1. निम्न प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।

क्या वेब-आधारित अधिगम कक्षाकक्ष-आधारित अधिगम का विकल्प हो सकता है ? अपने उत्तर को उदाहरणों द्वारा पुष्ट कीजिए।

अथवा

मल्टीमीडिया का उपयोग अधिगम अनुभवों को किस प्रकार बढ़ा सकता है ? चर्चा कीजिए।

2. निम्न प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।

‘आर्टिफिसियल इंटेलिजेन्स’ को परिभाषित कीजिए। आंकिक प्रक्रिया तथा सांकेतिक प्रक्रिया में क्या अंतर है ?

अथवा

वेब ब्राउजर क्या है ? आप किस उद्देश्य के लिए वेब ब्राउजर का उपयोग करते हैं ? उदाहरण दीजिए।

3. निम्न में से किन्हीं चार प्रश्नों के उत्तर प्रत्येक लगभग 150 शब्दों में दीजिए :

(क) सिस्टम सॉफ्टवेयर तथा अप्लिकेशन सॉफ्टवेयर

(ख) ऑथरवेयर

(ग) डेटाबेस प्रबंधन प्रणाली (DBMS)

(घ) एल्गोरिथ्म

(ङ) वर्चुअल रियलिटी

(च) सिमुलेशन

(छ) सोशल नेटवर्किंग साइट्स

(ज) शैक्षिक मल्टीमीडिया

4. निम्न प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।

क्या आप सहमत हैं कि शिक्षा में कंप्यूटर प्रौद्योगिकी का उपयोग शिक्षार्थियों को व्यापक स्वतंत्रता प्रदान करता है, इस प्रकार शिक्षार्थी की स्वायत्तता को बढ़ाता है ? अपने अनुभव पर आधारित उदाहरणों द्वारा अपने उत्तर को पुष्ट कीजिए।

----- X -----

1803

No. of Printed Pages : 4

MES-033

**MASTER OF ARTS (EDUCATION) / POST GRADUATE
DIPLOMA IN EDUCATIONAL TECHNOLOGY (MA)
(EDU) / (PGDET)**

Term-End Examination, 2019

MES-033 : COMPUTER TECHNOLOGY

Time : 3 Hours]

[Maximum Weightage : 70%

Note : All questions carry **equal** weightage. Answer **all** questions.

1. Answer the following question in about **600** words :

Discuss the advantages of using Database Management System (DBMS) in educational institutions. Illustrate your answer.

OR

What possibilities has the emergence of internet opened for education providers ? Discuss with examples.

2. Answer the following question in about **600** words :

Define Artificial Intelligence (AI). Discuss with examples the application of AI in education.



OR

What is a Web Browser ? Describe the different components of a Web Browser.

3. Write short notes on any four of the following in about 150 words each :

- (a) Cookies
- (b) Hypertext Markup Language (HTML)
- (c) Distributed computing
- (d) Virtual reality in education
- (e) Numeric processing and symbol processing
- (f) Telematics

4. Express and substantiate your views on the following statement :

"In the present age, use of educational technology is a necessity and not a choice."

----- X -----

एम.ई.एस.-033

शिक्षा में परास्नातक / शिक्षण प्रौद्योगिकी में
परास्नातक डिप्लोमा (एम.ए.) (शिक्षा) /
(पी.जी.डी.ई.टी.)

सत्रांत परीक्षा, 2019

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों की भारिता समान है।

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

शैक्षिक अनुदेशों में डेटाबेस प्रबंधन प्रणाली (DBMS) के उपयोग के लाभों की चर्चा कीजिए। अपने उत्तर को स्पष्ट कीजिए।

अथवा

शिक्षा प्रदान करने वालों के लिए इन्टरनेट के विकास ने किन संभावनाओं को खोल दिया है ? उदाहरण द्वारा चर्चा कीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

आर्टिफिसियल इंटेलिजेन्स (AI) को परिभाषित कीजिए। शिक्षा में ए.आई. (AI) के अनुप्रयोग की चर्चा उदाहरणों द्वारा कीजिए।

अथवा

वेब ब्राउजर क्या है ? वेब ब्राउजर के विभिन्न घटकों का वर्णन कीजिए।

3. निम्नलिखित में से किन्हीं चार पर प्रत्येक लगभग 150 शब्दों में संक्षिप्त टिप्पणियाँ लिखिए :

- (a) कूकीज़
- (b) हाइपरटेक्स्ट मार्कअप लैंग्वेज (एच.टी.एम.एल.)
- (c) वितरित कम्प्यूटिंग
- (d) शिक्षा में आभासी यथार्थ
- (e) आंकिक प्रक्रिया तथा प्रतीक प्रक्रिया
- (f) टेलिमैटिक्स

4. निम्नलिखित कथन पर अपने विचार अभिव्यक्त कीजिये एवं साक्ष्य द्वारा प्रमाणित कीजिए :

“वर्तमान समय में शैक्षिक प्रौद्योगिकी का उपयोग एक आवश्यकता है एवं एक पसंद नहीं है।”

----- X -----

No. of Printed Pages : 4

MES-033

**MASTER OF ARTS (EDUCATION) /
POST GRADUATE DIPLOMA IN
EDUCATIONAL TECHNOLOGY (MA)
(EDU)/(PGDET)**

Term-End Examination

MES-033 : Computer Technology

Time : 3 Hours *[Maximum Weightage : 70%]*

Note: All the questions are compulsory. All the questions carry equal weightage.

1. Answer the following questions in about 600 words.

What is an operating system? Discuss the features of UNIX operating system.

OR

Discuss how Information and Communication Technology (ICT) will shape education in future. Substantiate your answer with examples.



2. Answer the following questions in about 600 words.

What is computer software? List three software applications you would like to use for imparting education and explain their use.

OR

Discuss the advantages of using multimedia in education. Does the choice of multimedia depend on the target population? Substantiate your answer with suitable examples.

3. Write short notes on any four of the following in about 150 words each:

- (a) Search Engine
- (b) Database Management System
- (c) Learning Management System (LMS)
- (d) Flow charting
- (e) Expert System
- (f) DirectorMacromedia

4. Access to technology in rural and remote areas of India presents a challenging problem. Express your views on the use of educational technology in such a scenario. Substantiate your argument with example.

—x—

एम.ई.एस.-033

शिक्षा में परास्नातक/शिक्षण प्रौद्योगिकी में परास्नातक
डिप्लोमा (एम.ए.) (शिक्षा)/(पी.जी.डी.ई.टी.)

सत्रांत परीक्षा

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता: 70%

नोट: सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों की भारिता समान है?

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।
ऑपरेटिंग सिस्टम क्या है? UNIX ऑपरेटिंग सिस्टम की विशेषताओं की चर्चा कीजिए।

अथवा

सूचना एवं संप्रेषण प्रौद्योगिकी (ICT) भविष्य में शिक्षा को किस प्रकार आकार देगी, चर्चा कीजिए। अपने उत्तर के लिए ठोस प्रमाण दीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए।
कम्प्यूटर सॉफ्टवेयर क्या है? तीन सॉफ्टवेयर एप्लिकेशन को सूचीबद्ध कीजिए जिनको आप शिक्षा प्रदान करने हेतु उपयोग करना चाहेंगे तथा उनके उपयोग की व्याख्या कीजिए।

अथवा

शिक्षा में मल्टीमीडिया के उपयोग के लाभों की चर्चा कीजिए।
क्या मल्टीमीडिया का चयन लक्षित जनसंख्या पर निर्भर करता है? उचित उदाहरणों द्वारा अपने उत्तर को पुष्ट कीजिए।

3. निम्नलिखित में से किन्हीं चार पर संक्षिप्त टिप्पणी लिखिए।
प्रत्येक लगभग 150 शब्दों में हो।

(a) सर्च इंजन

(b) डेटाबेस प्रबन्धन प्रणाली

(c) अधिगम प्रबन्धन पद्धति (LMS)

(d) प्रवाह आरेखन

(e) विभेदज्ञ प्रणालियाँ

(f) मैक्रोमीडिया डॉयरेक्टर

4. “भारत के ग्रामीण एवं सुदूर क्षेत्रों में प्रौद्योगिकी की पहुँच एक चुनौतीपूर्ण समस्या को प्रस्तुत करता है।” ऐसे परिदृश्य में शैक्षिक प्रौद्योगिकी के उपयोग पर अपने विचार व्यक्त कीजिए। अपने तर्क को उदाहरणों द्वारा पुष्ट कीजिए।

—x—

1803

No. of Printed Pages : 4

MES-033

**MASTER OF ARTS (EDUCATION) / POST GRADUATE
DIPLOMA IN EDUCATIONAL TECHNOLOGY (MA)
(EDU) / (PGDET)**

Term-End Examination, 2019

MES-033 : COMPUTER TECHNOLOGY

Time : 3 Hours]

[Maximum Weightage : 70%

Note : All questions carry **equal** weightage. Answer **all** questions.

1. Answer the following question in about **600** words :

Discuss the advantages of using Database Management System (DBMS) in educational institutions. Illustrate your answer.

OR

What possibilities has the emergence of internet opened for education providers ? Discuss with examples.

2. Answer the following question in about **600** words :

Define Artificial Intelligence (AI). Discuss with examples the application of AI in education.



OR

What is a Web Browser ? Describe the different components of a Web Browser.

3. Write short notes on any four of the following in about 150 words each :

- (a) Cookies
- (b) Hypertext Markup Language (HTML)
- (c) Distributed computing
- (d) Virtual reality in education
- (e) Numeric processing and symbol processing
- (f) Telematics

4. Express and substantiate your views on the following statement :

"In the present age, use of educational technology is a necessity and not a choice."

----- X -----

एम.ई.एस.-033

शिक्षा में परास्नातक / शिक्षण प्रौद्योगिकी में
परास्नातक डिप्लोमा (एम.ए.) (शिक्षा) /
(पी.जी.डी.ई.टी.)

सत्रांत परीक्षा, 2019

एम.ई.एस.-033 : कम्प्यूटर प्रौद्योगिकी

समय : 3 घण्टे

अधिकतम भारिता : 70%

नोट : सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों की भारिता समान है।

1. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

शैक्षिक अनुदेशों में डेटाबेस प्रबंधन प्रणाली (DBMS) के उपयोग के लाभों की चर्चा कीजिए। अपने उत्तर को स्पष्ट कीजिए।

अथवा

शिक्षा प्रदान करने वालों के लिए इन्टरनेट के विकास ने किन संभावनाओं को खोल दिया है ? उदाहरण द्वारा चर्चा कीजिए।

2. निम्नलिखित प्रश्न का उत्तर लगभग 600 शब्दों में दीजिए :

आर्टिफिसियल इंटेलिजेन्स (AI) को परिभाषित कीजिए। शिक्षा में ए.आई. (AI) के अनुप्रयोग की चर्चा उदाहरणों द्वारा कीजिए।

अथवा

वेब ब्राउजर क्या है ? वेब ब्राउजर के विभिन्न घटकों का वर्णन कीजिए।

3. निम्नलिखित में से किन्हीं चार पर प्रत्येक लगभग 150 शब्दों में संक्षिप्त टिप्पणियाँ लिखिए :

- (a) कूकीज़
- (b) हाइपरटेक्स्ट मार्कअप लैंग्वेज (एच.टी.एम.एल.)
- (c) वितरित कम्प्यूटिंग
- (d) शिक्षा में आभासी यथार्थ
- (e) आंकिक प्रक्रिया तथा प्रतीक प्रक्रिया
- (f) टेलिमैटिक्स

4. निम्नलिखित कथन पर अपने विचार अभिव्यक्त कीजिये एवं साक्ष्य द्वारा प्रमाणित कीजिए :

“वर्तमान समय में शैक्षिक प्रौद्योगिकी का उपयोग एक आवश्यकता है एवं एक पसंद नहीं है।”

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