



NETAJI SUBHAS OPEN UNIVERSITY

POST-GRADUATE COURSE

Assignment : June-2020/Dec.-2020

MASTER OF LIBRARY AND INFORMATION SCIENCE

Paper-VI : Information Technology : Applications

QUESTION PAPER CUM ANSWER BOOKLET

(Full Marks : 100)

(Weightage of Marks : 20%)

Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.

Name (in Block Letter) :

Enrolment No.

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Study Centre Name : Code :

To be filled by the Candidate	Serial No. of question answered																			TOTAL
For Evaluator's only	Marks awarded																			

QP Code: PA/1/VI

PG-ARTS-AP-17149

Signature of Evaluator with Date

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POST-GRADUATE COURSE

Assignment : June-2020/Dec.-2020

STUDENT'S COPY

MASTER OF LIBRARY AND INFORMATION SCIENCE

Paper-VI : Information Technology : Applications

Name (in Block Letter) :

Enrolment No.

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PG-ARTS-AP-17149

Received Answer Booklet
Signature with seal by the Study-Centre

**জরুরি নির্দেশ / Important Instruction**

আগামী শিক্ষাবর্ষান্ত পরীক্ষায় (T.E. Exam.) নতুন ব্যবস্থা অর্থাৎ প্রশ্নসহ উত্তর পুস্তিকা (QPAB) প্রবর্তন করা হবে। এই নতুন ব্যবস্থার সঙ্গে পরীক্ষার্থীদের অভ্যস্ত করার জন্য বর্তমান অনুশীলন পত্রে নির্দেশ অনুযায়ী প্রতিটি প্রশ্নের উত্তর নির্দিষ্ট স্থানেই দিতে হবে।

New system i.e. Question Paper Cum Answer Booklet (QPAB) will be introduced in the coming Term End Examination. To get the candidates acquainted with the new system, assignment answer is to be given in the specified space according to the instructions.

**Detail schedule for submission of assignment for the
PG Term End Examination June-2020/Dec.-2020**

1. Date of Publication : 20/06/2020
2. Last date of Submission of answer script by the student to the study centre : 19/07/2020
3. Last date of Submission of marks by the examiner to the study centre : 16/08/2020
4. Date of evaluated answer scripts distribution by the study centre to the students (Students are advised to check their assignment marks on the evaluated answer scripts and marks lists in the study centre notice board. If there is any mismatch / any other problems of marks obtained and marks in the list, the students should report to their study centre Co-ordinator on spot for correction. The study centre is advised to send the corrected marks, if any, to the COE office within five days. No change / correction of assignment marks will be accepted after the said five days.) : 23/08/2020
5. Last date of submission of marks by the study centre to the Department of C.O.E. on or before : 31/08/2020

এখানে কিছু লিখবেন না

Do Not Write Anything Here

**GROUP – A**Answer any *two* of the following questions :

18 × 2 = 36

1. a) What do you mean by 'Unix-like Operating System' ? Describe the major features of any Unix-like OS as a multi-user and multi-tasking Operating System. 2 + 8
- b) Make a comparative study for major features of Windows and Unix-like Operating Systems. 8
2. a) 'Library automation is an area from where future benefits will emerge'. Elucidate the statement. 6
- b) Design a phase-wise planning for automation in a large academic library. 12
3. a) 'MARC 21 is a family of five coordinated standards'. — Discuss. 6
- b) Why do we need authority data standard for managing bibliographic records ? Explain. 6
- c) The document entitled "Managing programmers" is the 6th volume of the series 'Gellerman effective supervision series'. The 6th volume is edited by Saul Gellerman and its has ISSN 1014-546X. Library generally trace the series. Designate appropriate tags related to series with indicator positions. 6
4. a) What are the benefits of an automated acquisition system ? 6
- b) Discuss the workflow of a typical automated acquisition system in academic libraries of India with suitable illustrations. 12

First Answer :



QP Code: PA/1/VI

4/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

5/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

6/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

7/20

PG-ARTS-AP-17149

Second Answer :



QP Code: PA/1/VI

8/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

9/20

PG-ARTS-AP-17149

**GROUP – B**

Answer any *three* of the following questions:

12 × 3 = 36

5. What are the advantages of library automation ? Point out the differences between an automated library system and a digital library system. 4 + 8
 6. What do you mean by 'search technique' ? Explain with example any *five* of the following search operators/techniques :
 - i) Boolean AND Operator
 - ii) Right truncation
 - iii) Proximity operator
 - iv) Relational operator
 - v) Fuzzy search
 - vi) Boolean NOT operator.
 7. What is CDS/ISIS ? Discuss steps of developing a bibliographic database in CDS/ISIS by taking into consideration any five major tags (and subfields under it) of MARC 21 bibliographic format. 2 + 10
 8. Comment on any three of the following standards related to library automation :
 - i) UNIMARC
 - ii) CCF/B
 - iii) METS
 - iv) OAI/PMH
 - v) Z39.50.
 9. What is Unicode ? How does it differ from that of ASCII and ISCII ? 2 + 10
 10. Define 'packet switching'. Discuss the role of each layer of the communication protocol TCP/IP. 2 + 10
-

First Answer :



QP Code: PA/1/VI

11/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

12/20

PG-ARTS-AP-17149

Second Answer :



QP Code: PA/1/VI

13/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

14/20

PG-ARTS-AP-17149

Third Answer :



QP Code: PA/1/VI

15/20

PG-ARTS-AP-17149

**GROUP – C**Answer any *four* of the following : $7 \times 4 = 28$

11. Write an algorithm and design a flow chart to solve the following problem :
You need to take input of a name in lower case and require to convert in uppercase. 7
12. Write short notes on any *two* of the following support tools for programming :
 $3\frac{1}{2} \times 2$
 - i) Compiler
 - ii) Cross Assembler
 - iii) Loader
 - iv) Linker.
13. What is transmission media ? Compare the features of Twisted copper pair, Co-axial cable and Optical fibre as transmission media. 1 + 6
14. What do you mean by 'Linux Distribution' ? Explain the file structure of any Linux distribution known to you. 3 + 4
15. Discuss the major features of any *one* Integrated Library System (ILS) known to you. 7
16. Describe the services of any *two* of the following consortia/library networks :
 $3\frac{1}{2} \times 2$
 - i) DELENT
 - ii) ESS
 - iii) FORSA
 - iv) CeRA.
17. What is 'relational data modeling' ? Show the application of E-R data modeling in FRBR. 2 + 5
18. Differentiate as follows (any *two*) :
 $3\frac{1}{2} \times 2$
 - i) MODEM Vs ROUTER Vs SWITCH (as communication devices)
 - ii) FTP Vs TELNET Vs HTTP (as communication protocols)
 - iii) FDT Vs FST Vs PFT (as elements in CDS/ISIS)
 - iv) DATABASE Vs RECORD Vs FIELD (as elements of DBMS).

First Answer :



QP Code: PA/1/VI

17/20

PG-ARTS-AP-17149



QP Code: PA/1/VI

18/20

PG-ARTS-AP-17149

Second Answer :



QP Code: PA/1/VI

19/20

PG-ARTS-AP-17149

Third Answer :



QP Code: PA/1/VI

20/20

PG-ARTS-AP-17149

Fourth Answer :