

25901146

Reg.No :

Name :

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
MGU-BBA (HONOURS) Regular EXAMINATION March 2026
Fourth SEMESTER
Value Addition Course(VAC) - MG4VACBBA200 - MANAGEMENT
INFORMATION SYSTEMS AND APPLIED DATA ANALYSIS
(2024 ADMISSION ONWARDS)

Duration: 1 Hour 30 Minutes

Maximum Marks: 50

Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I) and Appreciation(Ap)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

Part A

MCQ

Answer all questions

Each question carries 1 mark

1. Edge computing processes data: [U] / [CO1]
a). Only in centralized clouds b). Only in data centers
c). Closer to the data source d). Only on desktops
2. ERP and CRM systems are examples of: [U] / [CO1]
a). Operating systems b). Enterprise applications
c). Networking platforms d). Storage platforms
3. The set of rules that governs the communication between different computers on a network is called a: [U] / [CO1]
a). Standard b). Protocol (e.g., TCP/IP) c). Logic d). Program

4. A legacy organizational culture that resists transparency is creating data silos, despite the implementation of a state-of-the-art ERP system. Which dimension of the information system is primarily failing to align? [U] / [CO1]
- a). The Organization Dimension b). The Management Dimension
- c). The Infrastructure Dimension d). The Technology Dimension
5. Which level of management uses MIS the most? [U] / [CO1]
- a). Top level only b). Lower level only
- c). Middle level only d). All management levels
6. Mainframe computing is characterized by: [U] / [CO1]
- a). Distributed processing b). Centralized processing
- c). Mobile access d). Edge processing
7. IT infrastructure evolution began with: [U] / [CO2]
- a). Cloud computing b). Mainframe systems
- c). AI systems d). Blockchain
8. Inventory control in E-Business is an example of: [U] / [CO2]
- a). Internal electronic process b). External advertising
- c). Manual work d). Social media activity
9. Which report is generated at fixed intervals? [U] / [CO2]
- a). Exception report b). Scheduled report
- c). On-demand report d). Forecasting report
10. E-communication involves: [A] / [CO2]
- a). Email b). Fax c). Postal mail d). None
11. Forward chaining answers the question: [U] / [CO2]
- a). Why did this happen?Who did this?
- b). Who did this?

c). What can happen next?

d). Where did it happen?

12. Tagging in enterprise social networking helps to:

[U] / [CO2]

a). Delete information

b). Add keywords to identify content

c). Hide documents permanently

d). Increase hardware speed

13. MIS reports are generally:

[An] / [CO2]

a). Periodic

b). Random

c). Rare

d). None

14. Pearson's correlation measures

[U] / [CO3]

a). Linear

b). Non linear

c). Casual

d). Rank based

relations between relation

relation

relation

variables

15. What is the assumption of ANOVA?

[K] / [CO3]

a). Normality of
data

b). Homogeneity
of variances

c). Independence
of observations

d). All

16. Number of books borrowed by students from a library in a month is an example of:

[U] / [CO3]

a). Continuous quantitative data

b). Discrete quantitative data

c). Nominal Data

d). Ordinal Data

17. In simple linear regression there are

[U] / [CO3]

a). One independent and dependent variable

b). two dependent variables

c). multiple independent variables

d). only categorical variables

18. Which of the following is an example of qualitative data?

[U] / [CO3]

a). Height in cm b). Weight in kg c). Eye Color d). Age in Years

19. Logistic regression is used for [U] / [CO3]

a). Regression b). Classification c). Clustering d). None

20. Where we get the option to customize the variable in Jamovi [U] / [CO3]

a). Variable panel b). Data View

c). Module d). Analyses Panel

[1x20 = 20]

Part B

SHORT ESSAY

Answer any **6** questions

Each question carries **5** marks

21. Discuss how MIS improves organizational efficiency. [U] / [CO1]

22. What is the difference between information and knowledge. [U] / [CO1]

23. What the priority in Business process re-engineering? [An] / [CO2]

24. What are the prerequisite to make E-communication? [An] / [CO2]

25. Explain Knowledge Management System. [An] / [CO2]

26. Explain the difference between discrete and continuous data with examples [U] / [CO3]

27. What are the assumptions of Wilcoxon signed rank test (paired sample)? [U] / [CO3]

28. Explain in detail mean with suitable example. [U] / [CO3]

[5x6 = 30]