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IV Semester B.Sc./B.Com. (NEP) Degree Examination, August/September - 2024
COMPUTER SCIENCE
Artificial Intelligence (SEC)
(Regular/Repeater)

Time : 1½ Hours

Maximum Marks : 30

Instructions to Candidates:

1. The question paper will be given in the form of a **Question Booklet**.
2. Immediately after the commencement of the examination, the candidate should check that the question Booklet supplied to him contains all the **30 questions** in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete Booklet. This is most important.
3. The last page of the question Booklet may be used for **rough work**.
4. Each question is provided with four choice **A, B, C and D** having one correct answer. Choose the correct answer and **darken the bubble** corresponding to the question number using **HB Pencil or Ball pen in the OMR Answer sheet**.
5. Each correct answer carries **1 mark and no negative marks** for unattempted questions or wrong answer.
6. No candidate will be allowed to leave the examination Hall till the end of the session and without handing over his/her OMR Answer sheet to the invigilator. Candidate should ensure that the Invigilator has verified all the entries in the Register Number coding sheet and that the invigilator has affixed his/her signature in the space provided.
7. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the examination will result in the summary disqualification of the candidate.
8. **Damaging/Overwriting using whitener on the OMR sheets** strictly prohibited.
9. Some technical words may be difficult to translate and the meaning will be changed in Kannada language.
10. **All 30 questions are compulsory**. There is no internal choice.

[P.T.O.]

- Which of the following are the big ideas of AI?
A) Perception
B) Human - AI Interaction
C) Societal Impact
D) All of the above
- The capability of software to interpret the world visually through cameras, video and Images.
A) Machine learning
B) Anomaly detection
C) Computer vision
D) None of the above
- When you are creating a Clustering Model, What common ML algorithm are you using?
A) Multiclass Logistic Regression
B) K-Means
C) Linear Regression
D) Two - class Neural Network.
- Which of the following web applications can be deployed with Azure?
A) PHP
B) WCF
C) ASP.NET
D) All of the above
- What is the name of the Artificial Intelligence system developed by Daniel Bobrow?
A) Program known as BACON
B) System known as STUDENT
C) Program known as SHRDLU
D) System known as SIMD.
- Face Recognition system is based on which type of approach?
A) Weak AI Approach
B) Applied AI Approach
C) Cognitive AI Approach
D) Strong AI Approach
- Which of the following is/are the composition for AI agents?
A) Program only
B) Architecture only
C) Both Program and Architecture
D) None of the mentioned

[P.T.O.]



8. Which data role enables advanced analytics capabilities specifically through reports and visualizations?

- A) Data Scientist
- B) Data Engineer
- C) Data Analyst
- D) Data Developer

9. The _____ attempt to draw inferences from existing data and patterns derive conclusions based on existing knowledge base.

- A) Cognitive data analytics
- B) Diagnostic data analytics
- C) Predictive data analytics
- D) Prescriptive data analytics

10. Who set up data platform technologies that are on _____ premises and in the cloud?

- A) Data analyst
- B) Data Engineer
- C) Data Scientist
- D) Database administrator

11. A _____ database is a flexible type of database that does not use tables to store data.

- A) No SQL
- B) PL - SQL
- C) NSQL
- D) SQL

12. You're creating a power BI report with data from an Azure Analysis Services Cube. When the data refreshes in the cube, you would like to see it immediately in the power BI report. How should you connect?

- A) Import
- B) T-SQL
- C) Live connection
- D) All of the above

13. _____ are defined between tables through primary and foreign keys.

- A) Relationship
- B) Cardinality
- C) Integrity
- D) Functionality



14. What services are involved in live speech translation?
- A) Speech - to - Text and Text - to - Speech
 - B) Speech correction
 - C) Machine Translation
 - ✓ D) All of the above
15. Select all model that are part of supervised ML?
- A) Regression Model
 - B) Association
 - C) Classification Model
 - ✓ D) Both (A) and (C)
16. What markup language will you use for the control of speech synthesis output for your phone auto attendant?
- A) HTML
 - B) SQL
 - ✓ C) SSML
 - D) JSON
17. What is the main foundation for the personal Digital Assistant?
- A) Azure Speech
 - ✓ B) Bot Frame work
 - C) Computer Vision Service
 - D) Text Analytics
18. You need to ensure that users can effectively navigate your reports by using the keyboard, which property should you configure?
- A) Bookmarks
 - B) Layer order
 - C) Mobile layout
 - ✓ D) Tab order
19. Which of the following options is not a privacy level in power BI desktop?
- A) Private
 - B) Public
 - C) Organizational
 - ✓ D) Confidential

[P.T.O.]



20. Which service should you use to extract text key/value pairs and table data automatically from scanned documents?
- ☒ A) Form Recognizer
 - B) Text Analytics
 - C) Language understanding
 - D) Custom vision
21. A predictive app provides audio output for visually impaired users, which principle of Responsible AI is reflected here?
- A) Transparency
 - ☒ B) Inclusiveness
 - C) Fairness
 - D) Accountability
22. Which of the following is not the commonly used programming language for Artificial Intelligence?
- ☒ A) Perl
 - B) Java
 - C) PROLOG
 - D) LISP
23. What does the Bayesian network provide?
- A) Partial description of the domain
 - B) Complete description of the problem
 - ☒ C) Complete description of the domain
 - D) None of the mentioned
24. Which of the following machine requires input from the humans but can interpret the outputs themselves?
- A) Actuators
 - B) Sensor
 - C) Agents
 - ☒ D) AI system
25. Which of the following matric/metrics used for regression model?
- A) Mean absolute error
 - B) Root of mean squared error
 - C) Relative Absolute error
 - ☒ D) All of the above



26. Which one of the following options is the most important key benefit of data analysis?
- A) Decisive analytics
C) Complex reports
✓ B) Informed business decisions
D) None of the above
27. Which of the following types of Explanations can be used to query the data from Azure Analysis Services Cubes?
- A) Transact - SQL (T - SQL)
B) Multidimensional Expressions (MDX)
C) Data Analysis Expressions (DAX)
✓ D) Both (B) and (C)
28. Your department wants to see a single visual that explains the factors that contribute to revenue growth the most. Which visualization should you use?
- A) Decomposition tree
C) ✓ Key influencers
B) Funnel chart
D) Stacked Column chart
29. In which university the first demonstration of AI program run?
- A) Oxford University
C) Cambridge University
B) Stanford University
✓ D) Carnegie Mellon University
30. Machine learning is a field of AI consisting of learning algorithms that _____.
- A) At executing some task
C) Improve their performance
B) Over time with experience
✓ D) All of the above

[P.T.O.]