

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)



MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!

مہربانی کر کے میری امی جان کے لیے دعا کر دینا ان کی ۲۰۲۱ میں وافات ہوگی تھی، شکریہ (ہادی)

FINAL TERM PAST PAPER SOLVED BY TEAM HADI VU CODE: CS402

Question 1: In Row Language, CFG is introduced in the form Net (A, B, C), where A and B are and C is _____

- stack characters, joint.
- pop characters, joint.
- **joints, stack character.**
- joints, push character

Question 2: We can also represent an FA using Accept, Reject and Read states etc. The _____ state behaves as final state of an FA.

- **Accept.**

- Pop.
- Push.
- Reject

Question 3: _____ is not a word of language EQUAL

- aaabbb.
- abbbabaa.
- **abababa.**
- bbbaaa

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Question 4: In Row Language, CFG is introduced in the form Net (A, B, C), where A and B are and C is _____

- stack characters, joint,
- pop characters, joint,
- **joints, stack character,**
- joints, push character

Question 5: The correct word produced by the regular expression $aa(a + b)^*b$ is, _____

- ab.
- bb.
- aaab. ←
- aaa

Question 6: Pumping lemma divides a string into _____ parts.

- one.
- two.
- **three.**
- four

Question: The first rule of converting the given "CFG in CNF", is _____

- CNK algorithm.
- **CYK algorithm.**
- CKY algorithm.
- KYC algorithm

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Question 7: The symbols that cannot be replaced by anything are called _____

- **Terminals.**
- Non terminals.
- Terminators.
- Productions

Question 8: _____ box of a sequential circuit is also called a Flip Flop Box.

- NAND.
- AND.
- OR.
- **Delay**

Question 9: The language of Palindromes defined over an alphabet set (a,b) can be recognized by?

- FA
- NFA
- TG
- **PDA**

Question 10: Which of the following regular expressions does not correspond to the language having all words (made up of a's and b's) with at least two a's?

- $(a+b)^* a (a+b)^* a (a+b)^* .$
- $(a+b)^* ab^* a(a+b)^* .$
- $b^*ab^* (a+b)^* .$ ←
- $b^*ab^* a(a+b)^*$

Question 11: Using Myhill Nerode theorem, we partition sigma star into distinct _____

- Objects.
- **Classes.**
- Instances.
- Templates

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Question 12: Regular language can be expressed by?

- **Regular expression only.**
- Finite automata only.
- Regular expression & Finite automata.
- Regular Language can not be expressed by FA or RE.

Question 13: How many rules are there to define all possible productions of Context Free Grammar (CFG) of "Row language"?

- **Three (3)**
- Five (5)
- Two (2)
- Four (4)

Question 14: The expression * +3 4 5 represents _____

- **Prefix notation.**
- Postfix notation.
- Infix notation.
- Free fix

Question 15: If R is regular language and Q is any language (regular/ nonregular), then Pref (Q in R) is,_____

- Finite non-Regular.
- Infinite non-Regular.
- **Regular.**
- Non-Regular

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Question 16: Which one of the following is correct option with respect to the Unit Production?

- One nonterminal- one terminal.
- **Nonterminal- Nonterminal.**
- One terminal-one terminal.
- Terminal-nonterminal

Question 17: All NONNULL words of the CFL can be generated by the corresponding CFG which is in.

- TG.
- **CNF.**
- NFA.
- ODFA

Question 18: The languages PALINDROME and PRIME are the examples of_____languages

- **Non regular.**
- Regular.
- TG.
- GTG

Question 19: A new state _____ is introduced before a PDA is converted to the Conversion Form

- END.
- **HERE.**
- START.
- REJECT

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Question 20: FA accepts nothing if it has _____ final state(s).

- One
- Two
- Three
- Zero ←

Question 21: The choice of path taken at POP state to accommodate the word belonging to CFL can be determined by _____ derivation of the word.

- Right most.
- **Left most.**
- Middle.
- Random

Question 22: Pumping lemma for regular languages acts on _____ while for CFLs it acts on _____

- machines, states.
- grammar, states.
- machines, grammar.
- grammar, machines

Question 23: The STACK is never popped beneath _____ symbol. Answer

- **\$**
- *
- +
- -

Question 24: If a CFG in CNF has p live and q dead productions then all words generated without repeating any live production have at most _____ letters.

- P .
- $p+1$
- $p+q+2$
- q

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Question 25: In conversion form of PDA, there must be _____ accept state(s) and _____ reject state(s).

- zero, zero
- **one, zero**
- two, one
- three, two

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اللہ صبر کرنے والوں کے ساتھ ہے

(سورہ البقرہ - آیت ۱۵۳)

TEAM HADI(VU)