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NATIONAL FEDERATION OF TELECOM EMPLOYEES

BSNL

(Regn. No. 4906 dated 17/9/2001)

MS-II, Q. No. 21 & 17, Atul Grove Road, New Delhi-110001

TF-14/2(b)

Dated:-12-06-2019

To,

GM
(Rectt)
BSNL, New Delhi.

Subject:- Discrepancies in the LICE, held on 26-05-2019, for promotion to JTO
Cadre – reg.

Respected Madam,

We are compelled to seek your kind attention on the subject as there is deep frustration amongst the concerned employees. We strongly feel that due attention and consideration is needed to readdress the grievance.

It is stated that the LICE was earlier scheduled for 28-04-2019 but the same was abruptly cancelled at the time when the candidates assembled in the examination hall. This has disturbed the staff to a very large extent.

We are told that there has been many questions whose answers in the "Key" were wrong. A copy of same is attached as annex-I. Some were even out of syllabus and of high standard.

We shall feel obliged in case dispassionate consideration is made to redress the grievance and employees are protected from the career loss.

Yours faithfully,


(Chandeshwar Singh)
General Secretary

JTO LICE question / answer with wrong /ambiguous/more than one answer

1. Which of the following does not affect Indian climate?

Options:

- Existence of Indian Ocean
- Ocean currents
- Proximity to equator
- Monsoon

Answer key supplied by BSNL - Ocean currents

Grievances- wrong answer

Explanation -

India is situated north of the equator between 8°04' to 37°06' north latitude and 68°07' to 97°25' east longitude. So the main land is far away from Equator. The Indian Monsoon Current refers to the seasonally varying ocean current regime found in the tropical regions of the northern Indian Ocean. During winter, the flow of the upper ocean is directed westward from near the Indonesian Archipelago to the Arabian Sea. During the summer, the direction reverses, with eastward flow extending from Somalia into the Bay of Bengal. These variations are due to changes in the wind stress associated with the Indian monsoon. The seasonally reversing open ocean currents that pass south of India are referred to as the Winter Monsoon Current and the Summer Monsoon Current (alternately, the Northeast Monsoon Current and the Southwest Monsoon Current). The Somali Current, which is strongly linked to the Indian monsoon.

Reference:

- https://en.wikipedia.org/wiki/Indian_Monsoon_Current

2. Air pollution by 'Fly Ash' is caused by

Options:

- Fertilizer plant
- Floor Mill
- Coal combustion in thermal power plant
- Cement industry

Answer key supplied by BSNL- Cement industry

Grievances -wrong answer

Explanation-

Coal combustion in thermal power plant gets converted into Ash after burning in the furnace from there Fly Ash together with the flue gas escapes through the chimney and it causes Air Pollution.

Reference-

- Any Book on electrical power system written by J.B. Gupta, S.L. Uppal, S.M. Rai etc
- https://en.wikipedia.org/wiki/Fly_ash

3. Polar coding is a technique in which

- 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse
- 1 is transmitted by a positive pulse and 0 is transmitted by zero volts
- Both option 1 & 2
- None of these

Answer supplied by BSNL: 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse

Grievances: Out of syllabus,

Explanation :

This question is from Advance Data communication. No topics included in the syllabus under “Data communication & computer network” module. Even no topics about “polar coding” is included in syllabus

Reference:

- JTO LICE Syllabus.

- <http://library.aceondo.net/ebooks/Computer Science/Data Communication and Networking by Behrouz.A.Forouzan 4th.edition.pdf>

4 .When microwave signals follow the curvature of the earth, this is known as

Options:

- Ionospheric Reflection
- Deducing
- Faraday Effect
- Tropospheric Scatter

Answer supplied by Bsnl: Deducing

Grievances: spelling mistake/wrong word

Explanation :

The right answer is 'Ducting' not the given answer'Deducing.so it creates utter confusion among candidates.

Reference:

- https://studysite.org/Discuss/Question/when_microwave_signals_follow_the_curvature_of_the_earth_this_is_known_as-181110207.htm

5.The main objective of a process control is to control

Options:

- Physical parameter
- Mechanical parameter
- Electrical parameter
- Optical parameter

Answer supplied by BSNL: Physical parameter

Grievances: out of syllabus

Explanation :

The question comes from control system paper of Btech level which is out of syllabus.

Process Control is the active changing of the process based on the results of process monitoring. Once the process monitoring tools have detected an out-of-control situation, the person responsible for the process makes a change to bring the process back into control.

Out-of-control Action Plans (OCAPS) detail the action to be taken once an out-of-control situation is detected. A specific flowchart, that leads the process engineer through the corrective procedure, may be provided for each unique process.

Advanced Process Control Loops are automated changes to the process that are programmed to correct for the size of the out-of-control measurement.

Reference:

- https://en.wikipedia.org/wiki/Process_control

6..... are the transformations in the diagram, which are responsible for central processing functions.

Options:

- Output transformations
- System-processing transformations
- Storage transformations
- Input transformations

Answer supplied by BSNL: System-processing transformations

Grievances: out of syllabus

Explanation :

A transformation process is any activity or group of activities that takes one or more inputs, transforms and adds value to them, and provides outputs for customers or clients. Where the inputs are raw materials, it is relatively easy to identify the transformation involved, as when milk is transformed into cheese and butter. Where the inputs are information or people, the nature of the transformation may be less obvious. For example, a hospital transforms ill patients (the input) into healthy patients (the output). Transformation processes include: (a) changes in the physical characteristics of materials or customers (b) changes in the location of materials, information or customers (c) changes in the ownership of materials or information (d) storage or accommodation of materials, information or customers (e) changes in the purpose or form of information (f) changes in the physiological or psychological state of customers.

More over the said “diagram” in the question is also not given .So candidates unable to judge the question clearly.

Reference:

- <https://study.com/academy/lesson/central-processing-unit-cpu-parts-definition-function.html>

7. In a P - Channel MOSFET, the substrate

- is p type
- is n type
- may be p-type or n-type
- None of these

Answer supplied by BSNL: may be p-type or n-type

Grievances: wrong answer

Explanation:

Substrate is always N-type for P channel MOSFET. The answer supplied by BSNL is wrong.

Reference:

- <https://en.wikipedia.org/wiki/MOSFET>

8. A COCOMO model is

- Common Cost estimation model
- Complete cost estimation model
- Constructive cost estimation model
- Comprehensive cost estimation model

Answer supplied by BSNL: Constructive cost estimation model

Grievances: Out of syllabus

Explanation :

The question comes from software development processes which is out of syllabus

The Constructive Cost Model (COCOMO) is an algorithmic software cost estimation model developed by Barry Boehm. The model uses a basic regression formula, with parameters that are derived from historical project data and current project characteristics. COCOMO was first published in 1981 Barry W. Boehm's Book Software engineering economics[1] as a model for estimating effort, cost, and schedule for software projects. It drew on a study of 63 projects at TRW Aerospace where Barry Boehm was Director of Software Research and Technology in 1981.

The study examined projects ranging in size from 2,000 to 100,000 lines of code, and programming languages ranging from assembly to PL/I. These projects were based on the waterfall model of software development which was the prevalent software development process in 1981.

Reference:

- <https://en.wikipedia.org/wiki/COCOMO>

9. The complexity of Bubble sort algorithm is

Options:

- $O(n \log n)$
- $O(n)$
- $O(\log n)$
- $O(n^2)$

Answer supplied by BSNL: $O(\log n)$

Grievances: Wrong answer

Explanation :

Answer suggested by the examiner appears to be wrong as the right answer is O(n²).

Reference:

- https://en.wikipedia.org/wiki/bubble_sort

10. Alpha testing is done by

- Customer
- Tester
- Developer
- All of these

Answer supplied by BSNL: all of these

Grievances: Out of syllabus

Explanation :

The question comes from software development processes which is out of syllabus

Alpha Testing is defined as a type of software testing performed to identify bugs before releasing the product to real users or the public. It is a type of acceptance testing. This testing is referred to as an alpha testing only because it is done early on, near the end of the development of the software, and before Beta Testing. Check Differences between Alpha testing and Beta testing

The main objective of alpha testing is to refine the software product by finding (and fixing) the bugs that were not discovered through previous tests. Alpha testing is typically performed by in-house software engineers or QA staff. It is the final testing stage before the software is released into the real world.

Reference:

- <https://www.softwaretestinghelp.com/what-is-alpha-testing-beta-testing/>

11. Which of the following is not Outer join?

Options:

- Left outer join
- Right outer join
- Full outer join
- All of these

Answer supplied by BSNL: All of these

Grievances:

- wrong answer/correct option is not available

Explanation :

None of the given option is correct, as all the options are related to outer join. Therefore full marks should be allotted to each candidate in respect of this question

Reference:

- [https://en.wikipedia.org/wiki/Join_\(SQL\)](https://en.wikipedia.org/wiki/Join_(SQL))

12. Which phase is not available in software life cycle?

Options:

- Testing
- Coding
- Abstraction
- Maintenance

Answer supplied by BSNL: Abstraction

Grievances: Out of syllabus

Explanation :

The question comes from software development processes which is out of syllabus

A software development life cycle (SDLC) model is a conceptual framework describing all activities in a software development project from planning to maintenance. This process is associated with several models, each including a variety of tasks and activities.

Software development is a cumbersome activity requiring proper identification of requirements, their implementation, and software deployment. However, the activities do not end there. After the distribution of the software, proper maintenance has to be provided in a timely manner.

Reference:

- <https://www.guru99.com/software-development-life-cycle-tutorial.html>

13. What are implicit and explicit implementations of freelists?

Options:

- explicit implementation is not favored
- garbage collection and new or malloc operators respectively
- new or malloc and garbage collection respectively
- implicit implementation is not favored

Answer supplied by BSNL: garbage collection and new or malloc operators respectively

Grievances : Question is not clearly meaning full

Explanation :

As per question the word “freelists “is meaningless word. It should be Free Lists. So, question may be considered as wrong.

Reference:

- Any dictionary

14. Which normal form is free of all update anomalies?

Options:

- 1NF
- 3NF
- 4NF
- 2NF
-

Answer supplied by BSNL: 3NF

Grievances: More than one right answer

Explanation:

3NF is free from all update anomalies so given Alternative 3 is right answer but if a Table is in 4NF so it must be in BCNF and 3NF also, so a table is in 4NF is also free from all update anomalies hence Alternative 4 is also right.

Reference:

- “Fundamentals of Database Systems” Book by Ramez Elmasri and Shamkant B. Navathe Chapter No.15, Page No.534
- Book Link: - <http://iips.icci.edu.iq/images/exam/databases-ramaz.pdf>

15. Memory allocation using malloc() is done in

Options:

- Stack area
- Static area
- Heap area
- Both Stack & Heap area

Answer supplied by BSNL: Heap area.

Grievances: Out of syllabus

Explanation:

The question belongs to storage management (dynamic memory allocation in C) which is not in JTO LICE EXAM syllabus as in Computer Architecture subject in syllabus only “C: Use of basic data Structures” is mentioned.

Reference:

- As per syllabus of JTO LICE EXAM subject –Computer Architecture
- As per “The C Programming Language” Book by BRIAN W KERNIGHAN DENNIS M. RITCHIE, Chapter no.7, Page No.167.
- Link-https://www.dipmat.univpm.it/~demeio/public/the_c_programming_language_2.pdf

16 calloc() initializes memory with all bits set to zero.

Options:

- false
- true
- Depends on the standard
- Depends on the compiler

Answer supplied by BSNL: TRUE

Grievances: Out of syllabus

Explanation:

The question belongs to storage management (dynamic memory allocation in C) which is not in JTO LICE EXAM syllabus as in Computer Architecture subject in syllabus only “C: Use of basic data Structures” is mentioned.

Reference:

- As per syllabus of JTO LICE EXAM subject –Computer Architecture
- As per “The C Programming Language” Book by BRIAN W KERNIGHAN DENNIS M. RITCHIE, Chapter no.7, Page No.167.
- Book Link: - https://www.dipmat.univpm.it/~demeio/public/the_c_programming_language_2.pdf

17. What is the syntax of a const member function?

Options:

- void fun() constant { }
- void fun() const { }
- void const fun() { }
- const void fun() { }

Answer supplied by BSNL : void fun() const { }

Grievances: Out of syllabus

Explanation:

The question belongs to Object and Class topic in C++ Programming languages subject and also belongs to coding part of language which is not in JTO LICE EXAM syllabus and way beyond the level of Diploma Engineering Exam.

Reference:

- As per “Object-Oriented Programming in C++” Book by Robert Lafore, Chapter no.6, Page No.252.
- Book Link:- <https://fac.ksu.edu.sa/sites/default/files/ObjectOrientedProgramminginC4thEdition.pdf>

18. What is the syntax to overload an operator?

Options:

- className:operator(parameters)
- className.operator(paramteres)
- className::operator(parameters)
- className->operator(parameters)

Answer supplied by BSNL: className::operator(parameters)

Grievances: Out of syllabus

Explanation:

The question belongs to Operator Overloading in C++ Programming languages subject and also belongs to coding part of language which is not in JTO LICE EXAM syllabus and way beyond the level of Diploma Engineering Exam.

Reference:

- As per “Object-Oriented Programming in C++”Book by Robert Lafore, Chapter no.8, Page No.319.
- Book Link: - <https://fac.ksu.edu.sa/sites/default/files/ObjectOrientedProgramminginC4thEdition.pdf>

19.Terrific means

Options:

- Big
- Terrible
- Excellent
- Tragic

Answer supplied by BSNL:Terrible

Grievances:More than one answer/ambiguous

Explanation:

The word terrific carries different meaning in different case in an English phrase. No phrase is supplied in the question to judge specifically.

- Of great size, amount, or intensity.
Example-‘there was a terrific bang’
Here terrific suggest large or massive
- informal Extremely good; excellent.
Example-
‘it’s been such a terrific day’
‘you look terrific’
Here terrific suggest excellent
- Archaic Causing terror.
Example-
his body presented a terrific emblem of death’
here terrific suggest iconic or terrible

Reference:

- Any grammar book of oxford /Cambridge publication

20.The transmission of multiple signals in a common frequency without interference is called

Options:

- Frequency division multiplexing
- Time division multiplexing
- Code division Multiplexing
- Spatial multiplexing

Answer supplied by BSNL : Spatial multiplexing

Grievances: out of syllabus.

Explanation :

The answer “Spatial multiplexing “ is out of JTO Lice syllabus.So its create utter confusion in the mind candidates

Reference:

The JTO LICE syllabus

21.The resolving of virtual functions is done at

Options:

- Interpret time
- Compile time
- Run time
- Writing Source code

Answer supplied by BSNL: Runtime

Grievances: out of syllabus

Explanation:

This question is from 'C++' which is not in syllabus only 'C' language is in our syllabus. The question belongs to Object and Class topic in C++ Programming languages subject and also belongs to coding part of language which is not in JTO LICE EXAM syllabus and way beyond the level of Diploma Engineering Exam.

Reference:

- As per “Object-Oriented Programming in C++” Book by Robert Lafore, Chapter no.6, Page No.252.
- Book Link:- <https://fac.ksu.edu.sa/sites/default/files/ObjectOrientedProgramminginC4thEdition.pdf>

22.How can Encapsulation be achieved?

Options:

- Using Abstruction
- Using Access Specifiers
- Using Only Private member
- Using inheritance

Answer supplied by BSNL: using access Specifiers

Grievances: wrong answer/beyond diploma engineering standard

Explanation:

Encapsulation in java is achieved by using private members and public methods.

But no such option is available in answer's .Further more it is beyond the knowledge level of diploma level students.

Example-

//save as Employee.java

```
public class Employee
{
    private String name;

    public String getName()
    {
        return name;
    }
    public void setName(String name)
    {
        this.name=name
    }
}
```

Reference:

- <https://www.cs.tufts.edu/comp/150CBD/readings/snyder86encapsulation.pdf>

23.Shri Hoffman says, "New terrorism has no long term agenda but is ruthless in its short term intentions. It is often just a cacophonous cry of protest or an outburst of religious intolerance or a protest against the West in general and the US in particular. Which of the following is most OPPOSITE in meaning of the word 'intolerance' as used in the above passage?"

Options:

- Loud
- Near
- Distant
- Melodious

Answer supplied by BSNL: Distant

Grivences : All the answer are wrong for a question.

Explanation:

Meaning of 'Intolerance' - Unwillingness to accept views, beliefs, or behavior that differ from one's own.

Similar meaning of ' intolerance'-prejudice,narrow mindedness,dogmatism ,bias ,indignant etc.

Opposite meaning of ' intolerance'- open mindedness, kindness,tolerant,impartial,fair,etc.

'Loud' means noise that has a very high volume

'Near' means to a short distance away, adjacent, nearby etc.

'Distant' means far away, not being friendly, isolates etc.

'Melodious' means relating to or characterized by melody, pleasant-sounding, tuneful, agreeable etc.

Here none of the alternative's meaning is nearly related to opposite meaning of intolerance.

Considering the above facts that none of the given Alternatives are correct,

Reference:

Any dictionary of oxford or Cambridge publication.

24. There was none did not enjoy the show.

Options:

- Whom
- That
- Who
- Which

Answer supplied by BSNL: that

Grievances : wrong answer

Explanation:

'Who' is always used to refer to people.

'That' is always used when you are talking about an object as well as class or type of people such as team.

Here in asked question, Show is that thing which is enjoyed by only people not by object. So Correct answer should be (who).

25. Naga, Khasi and Garo hills are located in

Options:

- Eastern range
- Karakoram range
- Zanskar range
- Himalayan range

Answer supplied by BSNL: Eastern range

Grievances: wrong answer/no right option available

Explanation :

Eastern range itself is a part of Himalayan range .More over as per Wikipedia and latest geographical information about the asked question –“it is not considered as part of Purvachal range or eastern range but "Shillong Plateau"

Reference:

https://en.wikipedia.org/wiki/Purvachal_Range

26. Which of the following is the largest union territory of India?

Options:

- Lakshadweep
- Chandigarh
- Andaman and Nicobar Islands
- Puducherry

Answer key supplied by BSNL - Andaman and Nicobar Islands

Grievances-Ambiguous

Explanation:

The said question can be interpreted in two ways depending upon the context. It is not mentioned that it is largest in the terms of Area or in the terms of population. In terms of Area it is Andaman and Nicobar Islands and in terms of population it is Puducherry. Prevailing ambiguity creates doubt in the mind of candidates, therefore full marks should be allotted to each candidates in respect of this ambiguous question.

27.RAD stands for

Options:

- Ready application development
- Rapid application development
- Repeated application development
- Relative application development

Answer supplied by BSNL: Rapid application development

Grievances: out of syllabus

Explanation :

Out of syllabus-question comes from software engineering

Reference:

- https://en.wikipedia.org/wiki/Rapid_application_development

28 The apparent frequency in Doppler's effect does not depend upon

Options:

- Distance between the observer and source
- Speed of the source
- Speed of the observer
- Frequency of the source

Answer supplied by BSNL: Distance between the observer and source

Grievances: Out of syllabus

Explanation :

The Doppler effect (or the Doppler shift) is the change in frequency or wavelength of a wave in relation to an observer who is moving relative to the wave source. The hypothesis was tested for sound waves by Buys Ballot in 1845. He confirmed that the sound's pitch was higher than the emitted frequency when the sound source approached him, and lower than the emitted frequency when the sound source receded from him.comes from Acoustic engineering

Reference:

- https://en.wikipedia.org/wiki/Doppler_effect

29. Hay bridge is particularly useful for measuring

Options:

- self inductance
- inductive impedance with large phase angle
- capacitance and dielectric loss
- mutual inductance

Answer supplied by BSNL: inductive impedance with large phase angle

Grievances: wrong answer/more than one answer

Explanation :

Both options (b) inductive impedance with large phase angle and (d) self inductance is right. So, question may be considered as wrong

- Reference:

<http://www.eeeguide.com/hays-bridge-circuit/>

30. Which of the following is the programmable interval timer?

Options:

- 8253
- 8279
- 8251
- 8259

Answer supplied by BSNL: 8253

Grievances: Out of syllabus

Explanation :

- INTEL 8253 Programmable Interval Timer, not given in syllabus.

Reference:

- JTO LICE Syllabus.

31.What do you call the speed of sound in the study of acoustics?

Options:

- Rhythm
- Pitch
- Tempo
- Frequency

Answer supplied by BSNL: Tempo

Grievances: Out of syllabus

Explanation :

Acoustics is the branch of physics concerned with the study of sound (mechanical waves in gases, liquids, and solids). Acoustics is the science concerned with the production, control, transmission, reception, and effects of sound.specifically it is a question from Acoustic engineering

Reference:

- <https://en.wikipedia.org/wiki/Sound>

32. Which of the following in not Outer join?

Options:

- Left outer join
- Right outer join
- Full outer join
- All of these

Answer supplied by BSNL All of these

Grievances:wrong answer/correct option is not available

Explanation :

None of the given option is correct, as all the options are related to outer join. Therefore full marks should be allotted to each condidate in respect of this question

Reference:

- [https://en.wikipedia.org/wiki/Join_\(SQL\)](https://en.wikipedia.org/wiki/Join_(SQL))

33. Which model is most popular for student's small projects?

Options:

- Waterfall model
- Quick and fix model
- Spiral model

- **Prototyping model**

Answer supplied by BSNL: Waterfall model

Grievances: Out of syllabus

Explanation :

waterfall model is the basic software development life cycle model (SDLC). It is very simple but idealistic. Earlier this model was very popular but nowadays it is not used. But it is very important because all the other software development life cycle models are based on the classical waterfall model. Quick-fix ModelIt is basically an adhoc approach to maintain software. Spiral model is one of the most important Software Development Life Cycle models, which provides support for Risk Handling. In its diagrammatic representation, it looks like a spiral with many loops. The exact number of loops of the spiral is unknown and can vary from project to project. Each loop of the spiral is called a Phase of the software development process.

Reference:

- <https://www.guru99.com/software-development-life-cycle-tutorial.html>

34.Video signals are transmitted by using

Options:

- Frequency Modulation
- Pulse Modulation
- Amplitude Modulation
- Either frequency or amplitude modulation

Answer supplied by BSNL: Amplitude Modulation

Grievances: wrong answer/right option not given

Explanation :

As per standard Text Book "Communication System" Author-siman Haykin, 4th edition, page no. 101, 102, 103. It is clearly explained that "VSB modulation "are use for video transmission. Hence, all four options are wrong.

Reference:

- <http://163.152.6.72/contents/vod/21/20121129093403/20121129093403.pdf>

35.The sensation of low or high in the sense of the bass and treble is called

Options:

- Frequency
- Pitch
- Intensity
- None of these

Answer supplied by BSNL: Pitch

Grievances: out of syllabus

Explanation :

Bass and Treble is related to Study of the Physiological Sensations of Sound. Bass and treble describe a range of sounds both in terms of musical notes and in terms of tone quality.comes from "Acoustic engineering".

Reference:

- https://en.wikipedia.org/wiki/Audio_engineer

36. Which one of the following uses UDP as the transport protocol?

Options:

- Telnet
- HTTP
- DNS

- SMTP

Answer supplied by BSNL : DNS

Grievances: Beyond diploma Engineering standard

Explanation: The question was asked in GATE CS-2007 Paper question no.20

Reference:

- Link: - https://drive.google.com/file/d/0By-VZ5fZo_6ieWVRX09mSXBiTxc/view

37. Which of the following relay is preferred for grounding fault?

Options:

- Differential relay
- Impedance relay
- IDMT relay
- reactance relay

Answer supplied by BSNL : reactance relay

Grievances: Beyond diploma Engineering standard

Explanation: The question was asked in GATE EE-1997 Paper question no.1.22

Reference: Link: -<https://gateforum.com/wp-content/uploads/2013/01/EE-1997.pdf>

38.The token bucket allows bursty traffic to be regulated at rate.

Options:

- Constant
- Maximum
- Zero
- Minimum

Answer supplied by BSNL: Maximum

Grievances:out of syllabus

Explanation: The token bucket is an algorithm used in packet switched computer networks which is not in the Syllabus of JTO LICE EXAM.

Reference:

- As per syllabus of JTO LICE EXAM subject –Data Communication and Computer Network
- As per “Computer Networks” 5th edition Book by Tanenbaum Chapter No.5, Page No.408
- Book Link: - <http://iips.icci.edu.iq/images/exam/Computer-Networks---A-Tanenbaum---5th-edition.pdf>

39. Polar coding is a technique in which

Options:

- 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse
- 1 is transmitted by a positive pulse and 0 is transmitted by zero volts
- Both option 1& 2
- None of these

Answer supplied by BSNL: 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse

Grievances: Out of syllabus,

Explanation :

This question is from Advance Data communication. No topics included in the syllabus under “Data communication & computer network” module. Even no topics about “polar coding” is included in syllabus

Reference:

- JTO LICE Syllabus.
- http://library.aceondo.net/ebooks/Computer_Science/Data_Communication_and_Networking_by_Behrouz.A.Forouzan_4th.edition.pdf

