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No:BTEU(BSNL)/Agenda/2018

Dated 20th February 2018

To
Smt Sujata T Ray,
Director (HR)
BSNL
New Delhi.

Subject: Discrepancies in the conduct of JE (erstwhile TTA) LICE held on 28.1.2018

**

Respected madam,

A kind reference is invited to this Union's letter of even no dated 6.2.2018 on the subject cited above wherein we have brought to your kind notice about the issue of discrepancies noticed in the JE (TT) exam held on 28.1.2018. The answer key has been released on 16.2.2018 to the candidates who have appeared in the examination and from a perusal of the same it is observed as follows.

- 1. The questions asked in Departmental exam particularly with Switching is confined to CDOT PHASE II training FOR JTO and PHASE I training of JTO**
- 2. The questions which are shown in bold in the enclosed annexure are challenged as out of syllabus questions as per the syllabus of TTA INTERNAL EXAMINATION.**

The standard of the paper is so tough that even an engineering graduate would find it difficult to answer the paper.

Madam, the officials who have appeared in the JE LICE are mostly from Line staff cadre and whose basic educational qualifications are 10+2. As such most of them have found it very difficult to answer the paper.

In view of the above it is requested to kindly appoint an expert committee to study the entire case and steps may kindly be taken to give full marks to all the 44 questions which are found to be out of syllabus and which form part of the JTO training syllabus.

With profound regards,

DA: Discrepancies noticed.

Yours faithfully,

(R.C.Pandey)

General Secretary

Copy to: Sr General Manager (SR)/ (Establishment) / (Recruitment) BSNL CO New Delhi
for kind infn and n.a please.

TTA EXAMINATION BEYOND SYLLABUS QUESTIONS

(AS THE BASIC QUALIFICATION is 10 +2 Std)

Questions in General science are to be considered as out of syllabus questions as per the syllabus of TTA EXAM

1. Hysteresis damage can be reduced by one of the following. QID : 4

Options:

- 1) Increasing the MMF of the circuit by enhancing MMF
- 2) Using material having narrow hysteresis loop using materials with narrow hysteresis loop
- 3) Using ferromagnetic core using iron-magnetic core
- 4) Laminating the magnetic circuit Magnetic circuit Laminate

2. What determines the direction of induced emf in a conductor or coil? QID : 7

Options:

- 1) Cork's Screw Rule
- 2) Fleming's Left Hand Rule
- 3) Ampere's Law Circuital
- 4) Fleming's Right Hand Rule

3. The impedance in the study of electronics is represented by resistance and impedance resistance in the study of electronics and is indicated by ___ QID : 11

Options:

- 1) inductance
- 2) capacitance
- 3) inductance and capacitance
- 4) reactance

4. The temperature rise of a transformer is directly proportional to the QID : 13

Options:

- 1) Apparent Power
- 2) Leakage Reactance
- 3) Reactive Power
- 4) True Power

5. Which of the following LEDs are currently available? QID : 22

Options:

- 1) yellow yellow
- 2) white white
- 3) orange orange
- 4) all of these

6. A pn junction diode has QID : 27

Options:

- 1) Low forward & high reverse resistance
- 2) A nonlinear VI features
- 3) Zero forward current till the forward voltage reaches cut in value
- 4) All of these

7. In PNP transistor is the current I_E has two components. i.e. I_{EP} due to injection QID :28

of holes from p-region to n-region and I_{EN} due to injection of electrons from n-region to p-region Then there are two components of I_E flow in the P-NP transistor. Due to the injection of holes from the I_{EP} P-region in the N-region and due to injection of I_{EN} electron from the N-region to

the P-field Again

Options:

- 1) I_{EP} and I_{EN} are almost equal
- 2) $I_{EP} \gg I_{EN}$
- 3) $I_{EN} \gg I_{EP}$
- 4) Either I_{EP} and I_{EN} are almost equal or $I_{EN} \gg I_{EP}$

8. At very high temperatures the extrinsic semiconductors become intrinsic because QID :29

Options:

- 1) Drive in diffusion of dopants & carriers diversify the movement of dopants and carriers.
- 2) Band to band transition dominants over impurity ionization.
- 3) Impurity ionization dominants over band to band transition Infringement ionization Band is effective on band transition
- 4) Band to band transition is balanced by impurity ionization.

9. Assertion (A): A PN junction has high resistance in reverse direction. Reason

(R): When a reverse bias is applied to PN junction, the width of depletion layer increases.

Convergence (A): P-N junction resistance is more in the opposite direction. Reason (R):

When a reverse bias is applied to P-N junction, the width of the depletion increases

Options:

- 1) Both A & R are true and R is correct explanation of A
- 2) Both A & R is true and R is not a correct explanation of A
- 3) A is true and R is false
- 4) A is false and R is true

10. Leak type bias is used in plate modulated class C amplifier to _____. QID : 31

Options:

- 1) increase the bandwidth
- 2) prevent over modulation
- 3) prevent excessive grid current
- 4) prevent tuned circuit damping

11. In Case Of Frequency Modulation, Modulating Voltage Remains Constant If QID :33

The Modulating Frequency Is Lowered, Then Amplitude Of Distant Sidebands

dimension in terms of frequency modulation,

Options:

- 1) Decreases
- 2) Increases
- 3) Remains Constant
- 4) First Increases, Decreases Then

12. In an FM receiver, amplitude limiter in FM receiver, dimension limiter QID : 34

Options:

- 1) amplifiers low frequency signals
- 2) reduces the amplitude of signals
- 3) eliminates any change in amplitude of received FM signals
- 4) none of these

13. The modulation techniques used to convert digital signal to analog signal are analog signals. QID :37

Options:

- 1) Pulse code modulation
- 2) Delta modulation
- 3) Adaptive delta modulation
- 4) All of these

14. In _____ TDM, slots are dynamically allocated to improve bandwidth efficiency QID : 38

Options:

- 1) Synchronous
- 2) Statistical
- 3) Isochronous
- 4) None Of These

15. In Pulse Position Modulation, the drawbacks are

Options:

- 1) Synchronization Is Required Between Transmitter And Receiver
- 2) Large Bandwidth Is Required As Compared To PAM
- 3) None Of The Above

16. Under normal circumstances, impulse noise can be reduced in normal circumstances, noise of impulse can be reduced QID : 40

Options:

- 1) FM Only
- 2) AM Only
- 3) Both AM And FM
- 4) None Of These

17. MICR stands for QID :44

Options:

- 1) Magnetic Ink Character Reader
- 2) Magnetic Ink Code Reader
- 3) Magnetic Ink Cases Reader
- 4) None Of These

18. A physical connection between the microprocessor memory and other parts of the microcomputer is known as QID :49

Options:

- 1) Path
- 2) Address bus
- 3) Route
- 4) All of these

DEPARTMENTAL EXAMINATION QUESTIONS (26 questions notified as out of syllabus questions)

1.- During creation, relationship between a free (unassigned) directory number and a free Equipment Number is established QID :54

Options:

- 1) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

2.For special route call, the call may be routed to alternate directory number of

the same exchange QID :57

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

3. Under malicious call observation, called party name is displayed QID :61

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

4.Short code registered for a particular number can not be changed indefinitely. QID :63

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

5.Two components responsible for deterioration of the performance of a cable

are _____ of the wires QID :66

Options:

- 1) Capacitance and insulation
- 2) Inductance and capacitance
- 3) Resistance and Capacitance
- 4) Resistance and inductance

6. Duration is not a field in the CDR QID :67

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

7. When STD barring code of any subscriber is locked permanently then it can never be released. QID :68

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

8.What is the requirement of engine alternator set when the battery sets are already provided? QID :69

Options:

- L) To Charge The Battery
- 2) To Increase The Capacity Of The Battery
- 3) To Take Care Of Prolonged Power Failure
- 4) None of these

9.When the number is deleted, the device number becomes free . QID :72

Options:

- L) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

10.The malicious call identification (MCI) feature allows the _____ of malicious calls to be identified. QID :73

Options:

- L) Destination
- 2) Origin
- 3) Contents Of
- 4) None Of These

11.The CDR may have a QID :77

Options:

- 1) Name
- 2) Time
- 3) Date
- 4) Both Time & Date

12. There is absolutely no break in the DC power supply in _____ scheme. QID :78

Options:

- 1) Charge-discharge
- 2) Stand-by
- 3) Float
- 4) Both

13.- Centrex facility is not possible for digital subscribers. QID :79

Options:

- 1) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

14.- How to measure the temperature in a VRLA cell? QID :81

Options:

- 1) Using Thermometer For Individual Cells
- 2) Using Mercury Barometer
- 3) Using Hygrometer
- 4) The Temperature Of Individual Cells Can Not Be Measured

15. Power plants are required to feed currents for _____ Options: QID :82

- 1) Reducing the effect of noise
- 2) Provide power to the lighting equipment in the exchange
- 3) Transmission, signaling, control & operation of exchanges & switches
- 4) none of these

16.A telecom network may be considered as a system consisting of _____

interacting subsystems. QID :85

Options:

- 1) 2
- 2) 3
- 3) 4
- 4) 5

17. When are the batteries of UPS will be recharged? Options: QID :87

- 1) Before Discharge
- 2) After Discharge, When The AC Restores
- 3) After Discharge, When DC Restores
- 4) None Of These

18.To avoid leakage of sound, _____ are used in E / A sets, QID :90

Options:

- 1) Muffler
- 2) Gaskets
- 3) Axial flow fan
- 4) All of these

19.The CENTREX feature is used to provide a _____PABX for a group of QID :91 subscribers

Options:

- 1) Actual
- 2) Virtual
- 3) Can Not Say
- 4) None Of These

20.The secondary battery can be used in _____ way. QID :92

Options:

- 1) Charge-Discharge System
- 2) Stand-By Battery System
- 3) Float System
- 4) All Of These

21. What is the role of surge arrestors? QID :93

Options:

- 1) Increase the transmission voltage in the line
- 2) Protection against high voltage spikes caused due to lightning, etc.
- 3) Decrease the frequency of the supply to
- 4) Provide switching in case of heavy loads

22.to divert stere RF energy from sensitive audio, video control and computer equipments, _____ is used sensitive audio, video control and computer devices. QID :94

Options:

- 1) AVR
- 2) Sensors
- 3) UPS
- 4) Earthing

23.- In the display of trunk group _____ is one of the displayed features displayed

In trunk group's display as one of _____ attributes. QID :95

Options:

- 1) Signaling
- 2) Name
- 3) Both Signaling And Name
- 4) None Of These

24.The resistance of Earth Electrode will not be more than_____. QID :96

Options:

- 1) 10 ohms
- 2) 2.5 ohms
- 3) 5 ohms
- 4) 7.5 ohms

25. Signaling Interface is one of the basic block of SPC Exchange QID :97

Options:

- 1) TRUE
- 2) FALSE
- 3) Can Not Say
- 4) None Of These

26.The calls made are charged at a higher rate than normal calls are charged at a higher rate than the normal rate. QID :100

Options:

- 1) UAN
- 2) VPN
- 3) Free Phone
- 4) Premium Rate Number