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## RRB SSE

Senior Section Engineer

# Simplifying **Government Exams**



#### RRB Secunderabad Sr. Section Engineers Exam

(Held on 21-12-2014)

#### SECTION I ENGLISH VERSION

(B) Transmission line

(D) Cascade amplifier

Know More

When donor type impurity is added to a semi-conductor material

(A) electrons are generated and material is N-type.
 (B) electrons are generated and material is P- type.
 (C) holes are generated and material is called P-type.
 (D) holes are generated and material is called N-type.
 To increase bandwidth, the distributed amplifier utilizes.

(A) common base configuration

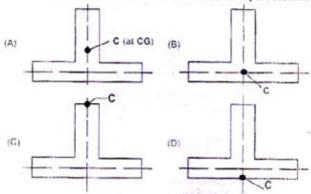
(C) tuned Circuit

	(A)	48EI WL <sup>3</sup>	(D	384 EI	200			
	(//)	48EI	2017	7.77				
		WL <sup>3</sup>	(B)	WL <sup>3</sup>				
8.	The maximum defection of a fixed beam carrying a central load W is et to (other notations standard)							
		reducing the grout shrinkage						
	(C)	increasing the plasticity						
	(B)							
	(A)							
7.	Gypsum is used as an admixture in cement grouts for							
	(C) (D)		dded	in each batch according to	the			
	(B)	Weighing accurately, the qua	intity (	of each material for a job be	fore			
	(A)	Controlling the total quantity of	f each	batch				
6.	Bate	Batching in concrete refers to						
	(C)	Straighten the timber	(D)	Remove sap from the timber				
5.	(A)		(B)	Harden the timber				
	(C)	Queen Post truss	(D)	Brick Masonry				
4.	(A)	closers are related to doors and windows	(B)	King post truss				
	(C)	its current	(D)	the thermal voltage				
	(A)	the applied voltage	(B)	the temperature				
3.	A p-n junction diode's dynamic conductance is directly proportional to							

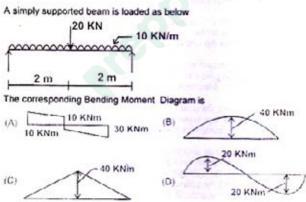
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In a thin-wall T-section, the shear centre C is located at the point shown in 9.

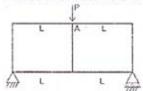


10.



- What is the radius of Mohr's circle in case of bi-axial state of stress ? 11.
  - (A) Half the sum of the two principal stresses
  - (B) Half the difference of the two principal stresses
  - (C) Difference of the two principal stresses
  - (D) Sum of the two principal stresses

12. What is the moment at A for a frame shown below :



Each vertical member has very large Moment of Inertia

(A)  $\frac{PL}{2}$ 

(B) PL

(C) PL

(D)  $\frac{PL}{16}$ 

 A structure has two degree of indeterminacy. The number of plastic hinges that would be formed at complete collapse is

- (A) D
- (B) 1
- (C) 2
- (D) 3

 For laminar flow between parallel plates separated by a distance 2h, head loss varies

(A) directly as h

(B) inversely as h

(C) directly as h2

(D) Inversely as h3

15. In Surveying, Offsets are

- (A) lateral measurements made with respect to main survey line
- (B) perpendiculars erected from chain lines
- (C) taken to avoid unnecessary walking between stations
- (D) measurements which are not made at right angles to the chain line

16. The true length of a line is known to be 200 m. When this is measured with a 20 m tape, the length is 200.8 m. The correct length of the 20 m tape is

(A) 19.92 m

(B) 19.98 m

(C) 20.04 m

(D) 20.08 m

17. Shear failure of soils takes place when

- (A) the angle of obliquity is maximum
- (B) maximum cohesion is reached in cohesive soils
- (C) ¢ reaches its maximum value in cohesionless soils
- (D) residual strength of the soil is exhausted

	(A)	Encoding	(B)	Decoding				
		Demultiplexing	(D)	The state of the s				
19.	In order to increase the range of a voltmeter							
	a low resistance is connected in parallel							
	(B) a low resistance is connected in series							
	(C)	(C) a high resistance is connected in parallel						
	(D)	a high resistance is connect	cd in se	ries				
20.	The	The internal resistance of the milliammeter must be very low for						
	(A)	(A) high accuracy						
		(B) high sensitivity						
	(C)	minimum effect on the curre	nt in the	circuit				
	(D)	maximum voltage drop acro	ss the n	neter				
21.	in c	in order to have fast, steady and accurate responses, the motors should						
	hav	0		Page 1				
		Critical damping						
		Under damping						
		a very high damping coeffici	ent					
	(D)	No damping						
22.	In c	In case of overdamping, the instrument will become						
	(A)	Oscillating		dead				
	(C)	fast and sensitive	(D)	slow and lethargic				
23.	Inn	In reference to Acid rain, what is correct statement.						
	(A)	(A) The pH value is below 5.6						
	(B) It occurs due to presence of sulphuric acid or nitric acid in the atmosphere							
	(C)	Maximum acid is due to stro	ng Carb	onic Acid				
	(D)	Acid rain affects ecosystem						
24.	In Global Warming, the major contribution is due to							
	(A)	Carbon emission	(B)					
	(C)	Deforestation		Industry				
25.	Which of the following mechanisms is NOT for removing particulate matter							
	fron	n gas streams.						
	(A)	Gravitational settling	(B)	Centrifugal impactio	D.			
	(C)	Electrostatic precipitation		Burning the particula				
26.	Which one of the following is NOT Biotic components of ecology.							
	(A)	Consumers	(B)	Producers				
	(C)	Decomposers		Climate				
				and the second second				

What is the process of utilizing one data link for transmission of a group of

18.

variables known as 2

27.	Match Col. X (Result) and Col. Y (Cause)								
		Col. X			Col. Y				
	(P)	Water pol	lution	1.	Combustion	of fossil fuel			
		Air polluti		2.	Decaying of	organic matter			
		Noise pol		3.	Pesticides				
		Soil pollu		4	High decibe				
		P-2, Q-1,		(8)	P:1, Q-2, R-				
		P-3, Q-1,			P1.03.R				
	(0)	1-0, 4-1,	N-2, 0-4	(6)	1,00	E. 0 1			
28.	Part	Part of the Computer where data and instructions are held is							
		Register			Accumulato				
		Memory I			CPU				
	(+)			1-7					
29.			. Assembler is						
	(A)	a progran	n that places prop	grams into	memory an	d prepares them for			
		execution	l .						
	(B)	a program	n that automate	the transl	lation of asse	embly language into			
		machine	language						
	(C)	a program	n that accepts a p	rogram w	ritten in a hig	h level language			
	,		uces an object pro						
	(D)				a source pr	ogram if it were			
	<ul> <li>is a program that appears to execute a source program if it were machine language</li> </ul>								
30.			ollowing is NOT a						
		Accumula		(B)	Stack Point	ar			
	(C)	Program	Counter	(D)	Buffer				
31.	MAN	Which Network protocol is used to send e-mail?							
31,		FTP	(B) SSH		POP 3	(D) SMTP			
	1.1		(0)	1-1		101			
32.	The	The use of a cache in Computer system increases the							
	(A)	(A) available memory space for the program							
	(B)	available	memory space for	r the data	1				
			speed of memory						
			ng range of CPU						
	4-1								
33.	A microprocessor has 24 address lines and 32 data lines. If it uses 10 bits								
	of opcode, the size of its Memory Buffer Register is								
	(A)	22 bits		(B)	24 bits				
	(C)	32 bits		(D)	14 bits				
34.	In a microprocessor when a CPU is interrupted, it								
			ecution of instruct						
			edges interrupt an			ine			
	(C)	Acknowle	edges interrupt an	d continu	es				
	(D)		edges interrupt an			truction from the			
		interrupti	ng device						

following? (A) Convert from serial to parallel and vice versa Convert signals between TTL and RS232 C standard and vice versa (B) (C) Convert from digital to analog signals and vice versa (D) To convert the computer to a long distance communication link The term digitization refers to 36. (A) conversion of analogue into digital (B) conversion of digital into analogue (C) use of analogue form of electricity (D) a form of changing physical quantities 37. Which is NOT a Wireless Technology. (A) Blue Tooth (B) A conventional telephone (C) Wi-fi (D) Wi-Max In an Engineering drawing, in double stroke Gothic lettering, which is 38. correct. (A) Letters are drawn thin (B) The lettering template is used to draw the outline of letter (C) This is not preferred for ink drawings (D) This is having non-uniform line width Match Col. X (Category) and Col. Y (Recommended Scale) in reference to 39. an Engineering drawing. Col. Y Col. X 1. 1:500 P Enlarging Scale 10:1 Q Full Scale Reducing Scale 3. 1:1 1:20 (A) P-4.Q-1.R-2.P-3 (B) P-2.Q-3.R-4.R-1 (C) P-1, Q-3, R-2, P-4 (D) P-2.Q-1.R-4.Q-3 If RF is 1/60000 and distance to be shown on drawing is 7.5 km, what is the length of line on drawing? (C) 45 cm (A) 12.5 cm (B) 8 cm (D) 10 cm A parabola can be constructed on a drawing by the methods EXCEPT 41. (B) Rectangle Method (A) Eccentricity Method (C) Parallelogram Method (D) Asymptote Method Which of the Statements is NOT correct. 42. (A) Isometric scale is used to draw isometric projection (B) Isometric scale is not used to draw isometric view (C) A square is seen as rectangle in isometric (D) A rectangle is seen as parallelogram in isometric

The MODEM is used with a personal computer to do which of the

35.

- 43. A particle moves along a circular path with constant speed. What is the nature of its acceleration?
  - (A) It is zero

- (B) It is Uniform
- (C) Its direction changes
- (D) Its magnitude changes
- 44. A body is at rest on the surface of the earth. Which of the following Statements is correct?
  - (A) No force is acting on the body
  - (B) Only weight of the body acts on it
  - (C) Net downward force is equal to net upward force
  - (D) None of these is correct
- 45. The Specific Heat of the gas in an isothermal process is
  - (A) Zero

(B) Infinite

(C) Negative

- (D) Remains constant
- 46. In a Simple Harmonic Oscillator, at the mean position
  - (A) Kinetic Energy is minimum, Potential Energy is maximum
    - (B) Both Kinetic and Potential Energies are maximum
  - (C) Kinetic Energy is maximum, Potential Energy is minimum
  - (D) Both Kinetic and Potential Energies are minimum
- 47. Mirage is a phenomenon due to
  - (A) Reflection of light
- (B) Refraction of light
- (C) Total Internal reflection of light (D) Diffraction of light

48. Which of the following cannot be speed-time (v-t) graph of a body in motion?









- Avogadro's number, N<sub>A</sub> means
  - (A) number of protons in nucleus of an atom
  - (B) number of atoms in one gram atom of an element
  - (C) sum of the number of protons and the neutrons in the nucleus of an atom.
  - (D) number of protons or electrons in one gram of Sodium

## Prepp

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