PSC Technician Grade ii -Blacksmith Cum Welder - Kcmmf Limited Examination Previous Year Question Paper

Exam Name: Technician Grade ii - Blacksmith Cum Welder - Kcmmf Limited

Date of Test : 19.11.2015

Question Paper Code: 208/2015

Medium of Questions: English



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Maximum : 100 marks

Time : 1 hour and 15 minutes

1.	Carbon co	ontent of grey cast iron is :		
	(A)	Less than 0.5%	(B)	0.5-1%
	(C)	1.0-1.5%	(D)	2-3.5%
2.	Brass is :			
	(A)	Cu-Zn alloy	(B)	Cu-Tin alloy
	(C)	Cu-Pb alloy	(D)	Cu- Ni alloy
3.	Large size	e bolt heads are made by :		
	(A)	Hammering	(B)	Casting
	(C)	Swaging	(D)	Upset forging
4.	A micron	is:		
	(A)	1mm	(B)	0.1mm
	(C)	0.01mm	(D)	0.001mm
5.	The melti	ng point of gold is :		teat at her and to be a growth of
	(A)	100°C	(B)	569°C
	(C)	1063°C	(D)	1493°C
6.	For solder	ring of Brass and Copper, the flux us	ed is :	
	(A)	Zinc Chloride	(B)	HCl acid
	(C)	Cupric acid	(D)	Ammoniumchloride
7.	Forging re	esults in the following :		
	(A)	Reduced mechanical properties	(B)	Improves the grain flow
	(C)	Creates internal defects	(D)	All of the above
8.	The prope	rty of a material which enables it to	retain tl	he deformation permanently is called
	(A)	Brittleness	(B)	Stiffness
	(C)	Maliability	(D)	Plasticity

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- 9. Blast finance is used to produce :
 - (A) Pig iron (B) Cast iron
 - (C) Wrought iron (D) Steel
- 10. Wrought iron :
 - (A) is a ductile material
 - (B) can be easily forged or welded
 - (C) cannot stand sudden and excessive shocks
 - (D) all of these.
- 11. Which of the following materials cannot be forged?
 - (A) Wrought iron
 - (C) Mild steel
- 12. Hot working operation is carried at :
 - (A) Re crystallization temperature
 - (B) Near olastic stage temperature
 - (C) Below recrystallization temperature
 - (D) Above recrystallization temperature
- 13. In an anvil, punch hole is used for :
 - (A) Bending rods of small diameter
 - (B) Cold punching operation
 - (C) Holding irregular work
 - (D) Cutting operations.
- 14. Which of the tong used for bolts rievets and other work of a circular section?
 - (A) Flat tong
 - (C) Gad tong

- (B) Rent tong
- (D) None of the above

15. Swaging:

- (A) Causes a steadily applied pressure instead of impact force
- (B) Is used to force the end of a heated bar into a desized shape
- (C) Is a forging operation in which two halves of a rotating die open and close rapidly while impacting the end of the heated tube or shell.
- (D) Is a forging method for reducing the diameter of a bar and in the process making it longer

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(B) Cast iron

(D) High carbon steel

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16.	Bick iron	is made of :			
	(A)	Tool steel		(B)	Cast iron
	(C)	Wrought iron		(D)	All the above
		, in the second s			
17.	Cutting e	dge of a cold chisel, hot chise	are respe	ectivel	y:
	(A)	60,30		(B)	30,45
	(C)	45,60		(D)	30,60
18.	In forge w	elding the method of prepar	ing the pie	eces of	metal for welding is :
	(A)	Edge preparation		(B)	Cutting
	(C)	Scarfing		(D)	Polishing
19.	Commonly	y used size of anvil is :			
10.	(A)	150kg		(B)	200kg
	(C)	250kg		(D)	400kg
	(0)	Loong		(2)	TOONS
20.	The proce called :	ss in which the cross section	of the wo	rk piec	ce is increased by reducing its length is
	(A)	Upsetting		(B)	Fullering
	(C)	Swaging		(D)	Drifting
21.	Which of t	the following process is differ	rent from t	the res	at of the processes?
	(A)	Shot peening		(B)	Cold extrusion
	(C)	Sand blasting		(D)	Drop forging
00	Al. 1				
22.		h has the crystal structure of BCC			FOC
	(A)	НСР		(B)	FCC None of the above
	(C)	nor		(D)	None of the above
23.	The defect	t occurred in some alloy stee	l due to ra	pid coo	oling from forging temperature is :
	(A)	Creep		(B)	Flakes
	(C)	Cracks		(D)	Dents
24.	Corronion	resistance of steel is increas	ed by add	ing :	
	(A)	Tungston and Sulpher		(B)	Nickel and molybolenum
	(C)	Nickel and chromium		(D)	Zinc and aluminium
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25. Which of the following processes would produce strongest components?

- (A) Forging (B) Die casting
- (C) Cold rolling (D) Hot rolling

26. The process of deforming a metal at room temperature to improve its hardness is known as :

- (A) Recrystallisation (B) Normalization
- (C) Tempering (D) Work hardening

27. The imperfection in crystal structure of metal is called :

- (A) Slip (B) Impurity
- (C) Fracture (D) Dislocation

28. Which of the following is the advantage of Drop farging?

- (A) There is little wastage of material
- (B) The operation are relatively faster
- (C) The strength of the material is enhanced
- (D) All of the above

29. For Smithy operation, the anvil used to hold small work piece is :

- (A) Bench vice (B) Hand vice
- (C) Bick iron (D) Leg vice

30. Which type of rule is used for marking and measuring patterns and hot jobs handled by blacksmith?

(A) Narrow rule	(B)	Shrink rule
(C) Hook rule	(D)	Short rule

31. The forging of steel specimen is done at a temperature of :

(A) 400°C
(B) 800°C
(C) 1100°C
(D) 1500°C

32. The process of removing the burns or flash from a forged component in drop forging is called :

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- (A) Swaging (B) Perforating
- (C) Trimming (D) Fettling

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33.					
	(A)	Goggles	(B)	Mask	
	(C)	Apron	(D)	Gloves	
34.	An openin	g through which the blas	t air enters blast fu	rnace is :	
	(A)	Wind box	(B)	Blower	
	(C)	Tuyers	(D)	Slag hole	
35.	The furna	ce for melting non ferrous	s metals are :	and the second second	
	(A)	Cupola	(B)	Open hearth furnace	
	(C)	Blast furnace	(D)	Crusible furnace	
36.	The recrys	stallisation temperature f	or steel is near to :		
	(A)	550°c	(B)	1025°c	
	(C)	960°c	(D)	800°c	
37.		indicates plain carbon st		on percentage :	
	(A)	0.14	(B)	1.4	
	(C)	1 to 0.18	(D)	14	
38.	Dielectric	materials are :			
	(A)	Insulators	(B)	Semiconductors	
	(C)	Conductors	(D)	Super conductors	
39.	Forging de	efect :			
	(A)	Swell	(B)	Scabs	
	(C)	Hot tear	(D)	Fins and rags	
40.	Entime at	mongth of a next can be in	aroasad by		
40.	(A)	rength of a part can be in Having surface well fini			
•	(A) (B)	Maintaining the temper		sible lovel	
	(D) (C)	Super imposing static st		sible level	
	(C) (D)	Reducing frequencing or			
	(U)	menuenis nequencing of			
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41.	Which is	the only method to join	n metals permanent	tly?	
	(A)	Brazing	((B)	Soldering
	(C)	Welding		(D)	Seaming
42.	Centre pu	unch tip is ground at –			
	(A)	60°	((B)	90°
	(C)	40°	((D)	70°
43.	In a gas v	velding which flame is	used to weld brass	?	
	(A)	Neutral flame	((B)	Carburising flame
	(C)	Oxidising	(D)	None of these
44.		—— is used to convert	AC welding supply	into	DC welding supply.
	(A)	welding transformer		B)	welding generator
	(C)	welding rectifier	(D)	motor generator
45.		ary combustion, the vo e a neutral flame :	lume of acetylene a	ndo	oxygen are supplied from the blow pipe
	(A)	1:1.5	(B)	1:1
	(C)	1:2.5	(D)	1:2
46.	Which typ	e of apron is used wh	ile during welding?		
	· (A)	Plastic	(B)	Cotton
	(C)	Silk		D)	Leather
47.	What will	happen unsafe weldin	ng practice, keeping	the	welding floor in wet condition?
	(A)	cut on the legs	(B)	eye injury
	(C)	electric shock	C	D)	burn injury
48.	Brass is a	n alloy of :			
	(A)	copper + tin	()	B)	copper + zinc
	(C)	copper + lead	()	D)	copper + aluminum
49.	What is th	e temperature of oxy-	acetylene flame?		me dangdandari -ne Diga
	(A)	3000°c - 3100°c	()	B)	3100°c – 3300°c
	(C)	2400°c – 2700°c	(1	D)	2700°c – 2800°c
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50. A groove or channel formed in the parent metal at the toe of the weld is called : (A) under cut (B) edge melted off (C) crack (D) porosity The normal storing capacity of acetylene in dissolved state is 6m³ with the pressure ranging 51. between : (A) $20 - 25 \text{ kg/cm}^2$ (B) $120 - 150 \text{ kg/cm}^2$ (C) $15 - 16 \text{ kg/cm}^2$ (D) $60 - 80 \text{ kg/cm}^2$ The size of the nozzle used to 1.6 mm plate thickness of the joint to be welded : 52. (A) 3 (B) 1 (C) 5 (D) 7 53. Low Hydrogen type electrodes are called -- electrodes. (A) cellulose coating (B) rutile coated (C) iron coated (D) basic coated Which colour coding is used to identify the argon cylinder? 54. (A) blue **(B)** grey (C) black (D) maroon 55. The ratio of the coating diameter to the core wire diameter is called : (A) dia of electrode (B) coating factor (C) size of electrode (D) length of electrode 56. If the main electric supply is not available, we can do arc welding with : (A) transformer set (B) engine generator set (C) motor generator set (D) rectifier set In pipe welding, the pipe is in vertical and welding is in horizontal position. What is the 57. welding position? (A) 1G **(B)** 5G (C) 2G (D) 6G 9 A

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58.			due to the effect	of various elements in the atmosphere
	and water			
	(A)	oxidation	(B)	reduction
	(C)	corrosion	(D)	thermal expansion
59.	Shade nu	mber of coloured glass for n	nanual metal arc	welding current in amperes up to 100 :
	(A)	8-9	(B)	10-11
	(C)	12 - 14	(D)	11-13
60.		nce between the junction of netal toe is called :	f the metals and t	the point where the weld metal touches
	(A)	heat affected zone	(B)	leg length
	(C)	throat thickness	(D)	fusion penetration
61.			e between the ele	ctrode tip and the job surface when the
	arc is form	ned.	and the second	
	(A)	arc stream	(B)	arc length
	(C)	leg length	(D)	heat affected zone
62.	When the	arc deviates from it's regu	lar paths due to t	he magnetic disturbances. It is called :
	(A)	distortion	(B)	gravity
	(C)	arc blow	(D)	polarity
63.	3.15 mm	electrode diameter equal to	gu	age electrode.
	(A)	12	(B)	10
	(C)	14	(D)	16
64.	Which eff	fect is more useful in the ca	se of over-head w	relding?
	(A)	Gravity force	(B)	Electromagnetic force
	(C)	Surface tension	(D)	Gas expansion force
65.	Steel wit	h a carbon range of 0.05 to	0.30% are called	steel.
	(A)	high carbon steel	(B)	medium carbon steel
	(C)	low carbon steel	(D)	high speed steel
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66.	While gas	cutting the nozzle should be :		
	(A) ⁻	touch the work	(B)	2 mm away from work
	(C)	5 mm away from work	(D)	10 mm away from work
67.	Argon gas	sisa:		
	(A)	inert gas	(B)	fuel gas
	(C)	supporting of fuel gas	(D)	active gas
68.	Α	is used for removing metal	/ oxide fr	om the outer surface and to make the
		ce edges square.		a second and the second second
	(A)	hack saw	(B)	file
	(C)	chisel	(D)	hammer
69.	Which on	e is a pressure welding process?		
	(A)	Electric arc welding	(B)	Atomic hydrogen arc welding
	(C)	Submerged arc welding	(D)	Resistance welding
70.	D.A. cylin	der means :		and a state of the state of the
	(A)	dissolved acetylene	(B)	dissolved air
	(C)	dissolved argon	(D)	defective acetylene
71.	What is n	neant by MAG welding?		
	(A)	Metal Arc Gas	(B)	Metal Active Gas
	(C)	Metal Inactive Gas	(D)	Metal Acetylene Gas
72.	In CO ₂ cy	linder, what is the necessity of pre-l	heater?	
	(A)	to pre-heat the gas	(B)	to reduce the gas
	(C)	to stop the gas	(D)	to produce the gas
73.	Which shi	elding gas has low density compare	d to air i	n MIG / MAG welding?
	(A)	Helium	(B)	Argon
	(C)	Neon	(D)	Carbon dioxide
74.	Which poy	wer source is suitable for GMAW?		and the roll adding the second
	(A)	AC	(B)	DC
	(C)	DC constant voltage	(D)	DC low voltage
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75.	Nickel an	d Titanium can be wel	ded only by this proce	ess. Which process is that?	
	(A)	MIG welding	(B)	TIG welding	
	(C)	Sub merged arc weld	ing (D)	Electro slag welding	
76.	Which ma	terial is used to make	gas nozzle in TIG we	lding process?	
	(A)	Mica	(B)	Ceramic	
	(C)	Bakelite	(D)	Graphite	
77.	Coding of	electrodes in IS: syste	m, the third digit ind	icating :	
	(A)	Welding position	(B)	Ultimate tensile strength	
	(C)	Percentage elongatio	n (D)	Current condition	
78.		—— is the ability of	the metal to stretc	h, bend or twist without breaking o	or
	cracking.				
	(A)	Tensile strength	(B)	Brittleness	
	(C)	Toughness	(D)	Ductility	
79.	Which ine	ert gas cylinder is colou	red in black with wh	ite neck?	
	(A)	Argon	(B)	Helium	
	(C)	Carbon dioxide	(D)	Neon	
80.	An examp	le of non-destructive t	est is :		
	(A)	Radiography test	(B)	Nick break test	
	(C)	Free bend test	(D)	Tensile test	
81.	'A post - c	lated cheque on a cras	hing bank' was Gand	hiji's opinion about :	
	(A)	Simon commission	(B)	Crips mission	
	(C)	Hunter commission	(D)	Cabinet mission	
82.	Jog falls i	s in the river :	an she had a she was		
	(A)	Kabani	(B)	Ganga	
	(C)	Narmada	(D)	Sharavathi	
83.	Bhoodan	movement was started	by:		
	(A)	Sundarlal Bahuguna	(B)	Nithya chaithanya Yathi	
	(C)	Swami Vivekananda	(<u>)</u>		
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84.	India's fir	st five year plan was started i	in :	his properties and	
	(A)	1950	(B)	1951	
	(C)	1961	(D)	1960	
85.	The oldes	t mountain range in India :			
	(A)	The Aravalli	(B)	The Himalaya	
	(C)-	The Vindhya	(D)	The Western Ghat	
86.	The rescu	e operation conducted by Gov	t. of India in Y	emen is called :	
	(A)	Operation blue star	(B)	Operation Vijay	
	(C)	Operation Rahat	(D)	Operation sealion	
87.	Chattamb	oi Swamikal attained Samadh	iat:		
	(A)	Panmana	(B)	Varkala	
	(C)	Venganoor	(D)	Pallana	
88.	The organ	nization 'Khudhai Khidmathk	hars' was organ	nized by :	
	(A)	Rani Gaidilue	(B)	Sir Sayed Ahamed Khan	
	(C)	Khan Abdul Gafar Khan	(D)	Mohamedali Jinnah	
89.	Bharath I	Mala and Sagar Mala are the	projects related	d to :	
	(A)	Health	(B)	Education	
	(C)	IT	(D)	Roads	
90.	Ananthan	natham was founded by :			
	(A)	Kumara Guru	(B)	Pandit Karuppan	
	(C)	Brahmananda Sivayogi	(D)	Vagbhatananda	
91.	The highe	st mountain peak in South In	dia :	1. S. Salara	
	(A)	Mount Everest	(B)	Anamudi	
	(C)	Mount K ₂	(D)	Nilgiri	
92.	The prope	sed capital of Andhra Prades	h is :		
	(A)	Hyderabad	(B)	Secunderabad	
	(C)	Warangal	(D)	Amaravathi	
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93.	Who was l	known as the father of	Muslim Renaissa	ance i	n kerala?
	(A)	Ali Musliyar		(B)	Mohamed Abdurahiman
	(C)	Vakkom Abdul Khad	er Moulavi	(D)	Moidu Moulavi
94.	K.M. Man	i presented his 13 th bu	dget in Kerala as	semb	ly on :
	(A)	March 13, 2015		(B)	March 12, 2015
	(C)	March 16, 2015		(D)	March 11, 2015
95.	Edwin Arr	nold's 'The Light of Asi	ia' inspired Kuma	arana	san to write :
	(A)	Chandalabhikshuki		(B)	Buddhacharitha
	(C)	Prarodanam		(D)	Veenapoovu
96.	The histor	ric midnight speech wa	s delivered by :	•	
	(A)	Jawaharlal Nehru		(B)	Gandhiji
	(C)	Jinnah		(D)	Bhagath Singh
97.	Lee Kuan	Yew, who died recentl	y was the father	of mo	odern :
	(A)	Malasia		(B)	Singapore
	. (C)	China		(D)	Indonesia
98.	The origin	al name of Thycaud A	yya was :		
•	(A)	Muthukutty		(B)	Kunhan Pillai
	. (C)	Govindankutty		(D)	Subbarayer
99.	Mamanka	m was held in :			
	(A)	Ponnani		(B)	Kozhikode
	(C)	Thirunavaya		(D)	Tirur
100.	The politi	cal party formed by C.	R. Das and Moth	ilal N	ehru in 1922 :
	(A)	Swarajist party		(B)	Home rule league
	(C)	Forward block	·	(D)	Congress socialist party
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